

<110> INCYTE CORPORATION; HAFALIA, April J.A.  
 LEE, Soo Yeun; MURAGE, Jaji;  
 SWARNAKAR, Anita; CHAWLA, Narinder K.;  
 KHARE, Reena; ELLIOTT, Vicki S.;  
 TRAN, Uyen K.; RAMKUMAR, Jayalaxmi;  
 GURURAJAN, Rajagopal; BAUGHN, Mariah R.;  
 GIETZEN, Kimberly J.; YANG, Yonghong G.;  
 CHIEN, David; WANG, Jonathan T.;  
 FAVERO, Kristin; BECHA, Shanya D.;  
 RICHARDSON, Thomas W.; JIN, Pei;  
 HAWKINS, Phillip R.; YUE, Henry;  
 LEE, Ernestine A.; MARQUIS, Joseph P.

<120> KINASES AND PHOSPHATASES

<130> PF-1617 PCT

<140> To Be Assigned

<141> Herewith

<150> US 60/423,226

<151> 2002-11-01

<150> US 60/426,713

<151> 2002-11-15

<150> US 60/429,766

<151> 2002-11-26

<150> US 60/447,043

<151> 2003-02-11

<160> 112

<170> PERL Program

<210> 1

<211> 229

<212> PRT

<213> Homo sapiens

<220>

<221> misc\_feature

<223> Incyte ID No: 7521809CD1

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Ala	Leu	Arg	Ala	Ala	Gln	Leu	Asp	Cys	Val	Asn	Glu	Ala	Glu	Ser
				20					25					30
Lys	Pro	Thr	Ala	Gly	Leu	Lys	Glu	Val	Ser	Ile	Ser	His	Pro	Ser
				35					40					45
Ser	Ala	Ser	Asp	Asn	Gln	Ile	Ala	Leu	Ala	Ser	Ser	Ser	Ser	Gln
				50					55					60
Asp	Glu	Leu	Phe	Val	Ala	Arg	Ile	Leu	Gln	Ser	Pro	Asp	Pro	Gly
				65					70					75
Gly	Pro	Arg	Asn	Gly	Thr	Ser	Asp	His	Leu	Glu	Thr	Asp	Gln	Arg
				80					85					90
Gln	Asp	Pro	Thr	Pro	Leu	Glu	Glu	Asn	Lys	Ser	Lys	Leu	Gln	Asp
				95					100					105
Val	Ile	Pro	Gln	Pro	Leu	Leu	Asp	Gln	Tyr	Val	Ser	Met	Thr	Asp
				110					115					120
Pro	Ala	Arg	Ala	Gln	Thr	Val	Asp	Thr	Asp	Ile	Ala	Lys	His	Cys
				125					130					135

Ala	Tyr	Ser	Leu	Pro	Gly	Val	Ala	Leu	Thr	Leu	Gly	Arg	Gln	Asn	
				140					145					150	
Trp	His	Cys	Leu	Lys	Asp	Thr	Tyr	Glu	Thr	Leu	Ala	Ser	Asp	Val	
				155					160					165	
Gln	Trp	Lys	Val	Arg	Arg	Ala	Leu	Ala	Phe	Ser	Ile	His	Glu	Leu	
				170					175					180	
Ala	Val	Ile	Leu	Gly	Asp	Gln	Leu	Thr	Ala	Ala	Asp	Leu	Val	Pro	
				185					190					195	
Ile	Phe	Asn	Gly	Phe	Leu	Lys	Asp	Leu	Asp	Glu	Val	Arg	Ile	Gly	
				200					205					210	
Val	Leu	Arg	His	Leu	Tyr	Asp	Phe	Leu	Lys	Thr	Ala	Asp	Thr	Asp	
				215					220					225	
Ser	Gly	Thr	Leu												

&lt;210&gt; 2

&lt;211&gt; 314

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

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&lt;223&gt; Incyte ID No: 7520259CD1

&lt;400&gt; 2

Met	Gln	Lys	Tyr	Glu	Lys	Leu	Glu	Lys	Ile	Gly	Glu	Gly	Gly	Ile	
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Ser	Trp	Leu	Arg	Glu	Glu	Cys	Arg	Ile	Leu	Thr	Leu	Thr	Pro	Asp	
				20					25					30	
Leu	Leu	Pro	Leu	Gly	Thr	Tyr	Gly	Thr	Val	Phe	Lys	Ala	Lys	Asn	
				35					40					45	
Arg	Glu	Thr	His	Glu	Ile	Val	Ala	Leu	Lys	Arg	Val	Arg	Leu	Asp	
				50					55					60	
Asp	Asp	Asp	Glu	Gly	Val	Pro	Ser	Ser	Ala	Leu	Arg	Glu	Ile	Cys	
				65					70					75	
Leu	Leu	Lys	Glu	Leu	Lys	His	Lys	Asn	Ile	Val	Arg	Leu	His	Asp	
				80					85					90	
Val	Leu	His	Ser	Asp	Lys	Lys	Leu	Thr	Leu	Val	Phe	Glu	Phe	Cys	
				95					100					105	
Asp	Gln	Asp	Leu	Lys	Lys	Tyr	Phe	Asp	Ser	Cys	Asn	Gly	Asp	Leu	
				110					115					120	
Asp	Pro	Glu	Ile	Val	Lys	Ser	Phe	Leu	Phe	Gln	Leu	Leu	Lys	Gly	
				125					130					135	
Leu	Gly	Phe	Cys	His	Ser	Arg	Asn	Val	Leu	His	Arg	Asp	Leu	Lys	
				140					145					150	
Pro	Gln	Asn	Leu	Leu	Ile	Asn	Arg	Asn	Gly	Glu	Leu	Lys	Leu	Ala	
				155					160					165	
Asp	Phe	Gly	Leu	Ala	Arg	Ala	Phe	Gly	Ile	Pro	Val	Arg	Cys	Tyr	
				170					175					180	
Ser	Ala	Glu	Val	Val	Thr	Leu	Trp	Tyr	Arg	Pro	Pro	Asp	Val	Leu	
				185					190					195	
Phe	Gly	Ala	Lys	Leu	Tyr	Ser	Thr	Ser	Ile	Asp	Met	Trp	Ser	Ala	
				200					205					210	
Gly	Cys	Ile	Phe	Ala	Glu	Leu	Ala	Asn	Ala	Gly	Arg	Pro	Leu	Phe	
				215					220					225	
Pro	Gly	Asn	Asp	Val	Asp	Asp	Gln	Leu	Lys	Arg	Ile	Phe	Arg	Leu	
				230					235					240	
Leu	Gly	Thr	Pro	Thr	Glu	Glu	Gln	Trp	Pro	Ser	Met	Thr	Lys	Leu	
				245					250					255	
Pro	Asp	Tyr	Lys	Pro	Tyr	Pro	Met	Tyr	Pro	Ala	Thr	Thr	Ser	Leu	
				260					265					270	
Val	Asn	Val	Val	Pro	Lys	Leu	Asn	Ala	Thr	Gly	Arg	Asp	Leu	Leu	
				275					280					285	

Gln	Asn	Leu	Leu	Lys	Cys	Asn	Pro	Val	Gln	Arg	Ile	Ser	Ala	Glu
				290					295					300
Glu	Ala	Leu	Gln	His	Pro	Tyr	Phe	Ser	Asp	Phe	Cys	Pro	Pro	
				305					310					

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 <213> Homo sapiens

<220>  
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 <223> Incyte ID No: 7521738CD1

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Met	Val	Val	Glu	Val	Gly	Thr	Leu	Asp	Ala	Gly	Gly	Leu	Arg	Ala
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Leu	Leu	Gly	Glu	Arg	Ala	Ala	Gln	Cys	Leu	Leu	Leu	Asp	Cys	Arg
				20					25					30
Ser	Phe	Phe	Ala	Phe	Asn	Ala	Gly	His	Ile	Ala	Gly	Ser	Val	Asn
				35					40					45
Val	Arg	Phe	Ser	Thr	Ile	Val	Arg	Arg	Arg	Ala	Lys	Gly	Ala	Met
				50					55					60
Gly	Leu	Glu	His	Ile	Val	Pro	Asn	Ala	Glu	Leu	Arg	Gly	Arg	Leu
				65					70					75
Leu	Ala	Gly	Ala	Tyr	His	Ala	Val	Val	Leu	Phe	Val	His	Cys	Gln
				80					85					90
Ala	Gly	Ile	Ser	Arg	Ser	Ala	Thr	Ile	Cys	Leu	Ala	Tyr	Leu	Met
				95					100					105
Arg	Thr	Asn	Arg	Val	Lys	Leu	Asp	Glu	Ala	Phe	Glu	Phe	Val	Lys
				110					115					120
Gln	Arg	Arg	Ser	Ile	Ile	Ser	Pro	Asn	Phe	Ser	Phe	Met	Gly	Gln
				125					130					135
Leu	Leu	Gln	Phe	Glu	Ser	Gln	Val	Leu	Ala	Pro	His	Cys	Ser	Ala
				140					145					150
Glu	Ala	Gly	Ser	Pro	Ala	Met	Ala	Val	Leu	Asp	Arg	Gly	Thr	Ser
				155					160					165
Thr	Thr	Thr	Val	Phe	Asn	Phe	Pro	Val	Ser	Ile	Pro	Val	His	Ser
				170					175					180
Thr	Asn	Ser	Ala	Leu	Ser	Tyr	Leu	Gln	Ser	Pro	Ile	Thr	Thr	Ser
				185					190					195

Pro Ser Cys

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 <213> Homo sapiens

<220>  
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 <223> Incyte ID No: 7522266CD1

<400> 4

Met	Asp	Leu	Phe	Gly	Asp	Leu	Pro	Glu	Pro	Glu	Arg	Ser	Pro	Arg
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Pro	Ala	Ala	Gly	Lys	Glu	Ala	Gln	Lys	Gly	Pro	Leu	Leu	Phe	Asp
				20					25					30
Asp	Leu	Pro	Pro	Ala	Ser	Ser	Thr	Asp	Ser	Gly	Ser	Gly	Gly	Pro
				35					40					45
Leu	Leu	Phe	Asp	Asp	Leu	Pro	Pro	Ala	Ser	Ser	Gly	Asp	Ser	Gly
				50					55					60
Ser	Leu	Ala	Thr	Ser	Ile	Ser	Gln	Met	Val	Lys	Thr	Glu	Gly	Lys

	65		70		75									
Gly	Ala	Lys	Arg	Lys	Thr	Ser	Glu	Glu	Glu	Lys	Asn	Gly	Ser	Glu
	80								85					90
Glu	Leu	Val	Glu	Lys	Lys	Val	Cys	Lys	Gly	Asp	Val	Ile	Ser	Val
	95								100					105
Glu	Lys	Thr	Val	Lys	Arg	Cys	Leu	Leu	Asp	Thr	Phe	Lys	His	Thr
	110								115					120
Asp	Glu	Glu	Phe	Leu	Lys	Gln	Ala	Ser	Ser	Gln	Lys	Pro	Ala	Trp
	125								130					135
Lys	Asp	Gly	Ser	Thr	Ala	Thr	Cys	Val	Leu	Ala	Val	Asp	Asn	Ile
	140								145					150
Leu	Tyr	Ile	Ala	Asn	Leu	Gly	Asp	Ser	Arg	Ala	Ile	Leu	Cys	Arg
	155								160					165
Tyr	Asn	Glu	Glu	Ser	Gln	Lys	His	Ala	Ala	Leu	Ser	Leu	Ser	Lys
	170								175					180
Glu	His	Asn	Pro	Thr	Gln	Tyr	Glu	Glu	Arg	Met	Arg	Ile	Gln	Lys
	185								190					195
Ala	Gly	Gly	Asn	Val	Arg	Asp	Gly	Arg	Val	Leu	Gly	Val	Leu	Glu
	200								205					210
Val	Ser	Arg	Ser	Ile	Gly	Asp	Gly	Gln	Tyr	Lys	Arg	Cys	Gly	Val
	215								220					225
Thr	Ser	Val	Pro	Asp	Ile	Arg	Arg	Cys	Gln	Leu	Thr	Pro	Asn	Asp
	230								235					240
Arg	Phe	Ile	Leu	Leu	Ala	Cys	Asp	Gly	Leu	Phe	Lys	Val	Phe	Thr
	245								250					255
Pro	Glu	Glu	Ala	Val	Asn	Phe	Ile	Leu	Ser	Cys	Leu	Glu	Asp	Glu
	260								265					270
Lys	Ile	Gln	Thr	Arg	Glu	Gly	Lys	Ser	Ala	Ala	Asp	Ala	Arg	Tyr
	275								280					285
Glu	Ala	Ala	Cys	Asn	Arg	Leu	Ala	Asn	Lys	Ala	Val	Gln	Arg	Gly
	290								295					300
Ser	Ala	Asp	Asn	Val	Thr	Val	Met	Val	Val	Arg	Ile	Gly	His	
	305								310					

&lt;210&gt; 5

&lt;211&gt; 101

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 7523011CD1

&lt;400&gt; 5

Met	Thr	Leu	Asp	Val	Gly	Pro	Glu	Asp	Glu	Leu	Pro	Asp	Trp	Ala
1				5					10					15
Ala	Ala	Lys	Glu	Phe	Tyr	Gln	Lys	Tyr	Asp	Pro	Lys	Asp	Val	Ile
				20					25					30
Gly	Arg	Gly	Val	Ser	Ser	Val	Val	Arg	Arg	Cys	Val	His	Arg	Ala
				35					40					45
Thr	Gly	His	Glu	Phe	Ala	Val	Lys	Ile	Met	Glu	Val	Thr	Ala	Glu
				50					55					60
Arg	Leu	Ser	Pro	Glu	Gln	Leu	Glu	Glu	Val	Arg	Glu	Ala	Thr	Arg
				65					70					75
Arg	Glu	Thr	His	Ile	Leu	Arg	Gln	Ser	Pro	Ser	Ser	Ile	Pro	Thr
				80					85					90
Ser	Leu	Leu	Ala	Ser	Cys	Ser	Trp	Cys	Leu	Thr				
				95					100					

&lt;210&gt; 6

&lt;211&gt; 168

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

<220>  
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 1 5 10 15  
 Val Leu Thr Ser Leu Ala Tyr Cys Leu His Gln Arg Arg Val Ala  
 20 25 30  
 Leu Ala Glu Leu Gln Glu Ala Asp Gly Gln Cys Pro Val Asp Arg  
 35 40 45  
 Ser Leu Leu Lys Leu Lys Met Val Gln Val Val Phe Arg His Gly  
 50 55 60  
 Ala Arg Ser Pro Leu Lys Pro Leu Pro Leu Glu Glu Gln Gly Gly  
 65 70 75  
 Met Phe Ala Gly Gln Leu Thr Lys Val Gly Met Gln Gln Met Phe  
 80 85 90  
 Ala Leu Gly Glu Arg Leu Arg Lys Asn Tyr Val Glu Asp Ile Pro  
 95 100 105  
 Phe Leu Ser Pro Thr Phe Asn Pro Gln Glu Val Phe Ile Arg Ser  
 110 115 120  
 Thr Asn Ile Phe Arg Asn Leu Glu Ser Thr Arg Cys Leu Leu Ala  
 125 130 135  
 Gly Leu Phe Gln Cys Gln Lys Glu Asp Lys Arg Thr Lys Thr Gln  
 140 145 150  
 Arg Gly Ser Val Thr Cys Pro Gly Thr Gln Asn Trp Thr His His  
 155 160 165  
 His Pro His

<210> 7  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 7523379CD1

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 Met Lys Asn Tyr Lys Ala Ile Gly Lys Ile Gly Glu Gly Thr Phe  
 1 5 10 15  
 Ser Glu Val Met Lys Met Gln Ser Leu Arg Asp Gly Asn Tyr Tyr  
 20 25 30  
 Ala Cys Lys Gln Met Lys Gln Arg Phe Glu Arg Leu Gly Asn  
 35 40

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 <211> 240  
 <212> PRT  
 <213> Homo sapiens

<220>  
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 <223> Incyte ID No: 7523387CD1

<400> 8  
 Met Ser Ser Arg Lys Leu Ser Gly Pro Lys Gly Arg Arg Leu Ser  
 1 5 10 15  
 Ile His Val Val Thr Trp Asn Val Ala Ser Ala Ala Pro Pro Leu  
 20 25 30  
 Asp Leu Ser Asp Leu Leu Gln Leu Asn Asn Arg Asn Leu Asn Leu  
 35 40 45

Asp	Ile	Tyr	Val	Ile	Gly	Glu	Lys	Lys	Arg	Lys	Pro	Ala	Trp	Thr		
				50					55						60	
Asp	Arg	Ile	Leu	Trp	Arg	Leu	Lys	Arg	Gln	Pro	Cys	Ala	Gly	Pro		
				65					70						75	
Asp	Thr	Pro	Ile	Pro	Pro	Ala	Ser	His	Phe	Ser	Leu	Ser	Leu	Arg		
				80					85						90	
Gly	Tyr	Ser	Ser	His	Met	Thr	Tyr	Gly	Ile	Ser	Asp	His	Lys	Pro		
				95					100						105	
Val	Ser	Gly	Thr	Phe	Asp	Leu	Glu	Leu	Lys	Pro	Leu	Val	Ser	Ala		
				110					115						120	
Pro	Leu	Ile	Val	Leu	Met	Pro	Glu	Asp	Leu	Trp	Thr	Val	Glu	Asn		
				125					130						135	
Asp	Met	Met	Val	Ser	Tyr	Ser	Ser	Thr	Ser	Asp	Phe	Pro	Ser	Ser		
				140					145						150	
Pro	Trp	Asp	Trp	Ile	Gly	Leu	Tyr	Lys	Val	Gly	Leu	Arg	Asp	Val		
				155					160						165	
Asn	Asp	Tyr	Val	Ser	Tyr	Ala	Trp	Val	Gly	Asp	Ser	Lys	Val	Ser		
				170					175						180	
Cys	Ser	Asp	Asn	Leu	Asn	Gln	Val	Tyr	Ile	Asp	Ile	Ser	Asn	Ile		
				185					190						195	
Pro	Thr	Thr	Glu	Asp	Glu	Phe	Leu	Leu	Cys	Tyr	Tyr	Ser	Asn	Ser		
				200					205						210	
Leu	Arg	Ser	Val	Val	Gly	Ile	Ser	Arg	Pro	Phe	Gln	Ile	Pro	Pro		
				215					220						225	
Gly	Ser	Leu	Arg	Glu	Asp	Pro	Leu	Gly	Glu	Ala	Gln	Pro	Gln	Ile		
				230					235						240	

&lt;210&gt; 9

&lt;211&gt; 170

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 7521804CD1

&lt;400&gt; 9

Met	Ser	Ile	Glu	Ile	Pro	Ala	Gly	Leu	Thr	Glu	Leu	Leu	Gln	Gly		
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Phe	Thr	Val	Glu	Val	Leu	Arg	His	Gln	Pro	Ala	Asp	Leu	Leu	Glu		
				20					25					30		
Phe	Ala	Leu	Gln	His	Phe	Thr	Arg	Leu	Gln	Gln	Glu	Asn	Glu	Arg		
				35					40					45		
Lys	Gly	Thr	Ala	Arg	Phe	Gly	His	Glu	Gly	Arg	Thr	Trp	Gly	Asp		
				50					55					60		
Leu	Gly	Ala	Ala	Ala	Gly	Gly	Gly	Thr	Pro	Ser	Lys	Gly	Val	Asn		
				65					70					75		
Phe	Ala	Glu	Glu	Pro	Met	Gln	Ser	Asp	Ser	Glu	Asp	Gly	Glu	Glu		
				80					85					90		
Glu	Glu	Ala	Ala	Pro	Ala	Asp	Ala	Gly	Ala	Phe	Asn	Ala	Pro	Val		
				95					100					105		
Ile	Asn	Arg	Phe	Thr	Arg	Arg	Ala	Ser	Val	Cys	Ala	Glu	Ala	Tyr		
				110					115					120		
Asn	Pro	Asp	Glu	Glu	Glu	Asp	Asp	Ala	Glu	Ser	Arg	Ile	Ile	His		
				125					130					135		
Pro	Lys	Thr	Asp	Asp	Gln	Arg	Asn	Arg	Leu	Gln	Glu	Ala	Cys	Lys		
				140					145					150		
Asp	Ile	Leu	Leu	Phe	Lys	Asn	Leu	Asp	Pro	Ile	Trp	Ile	Leu	Met		
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Val	Trp	Ser	Gly	Ala												
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<210> 10  
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 <213> Homo sapiens

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 1 5 10 15  
 Ile His Arg Ala Arg Asp Thr Gln Thr Asp Glu Ile Val Ala Leu  
 20 25 30  
 Lys Lys Val Arg Met Asp Lys Glu Lys Asp Gly Ile Pro Ile Ser  
 35 40 45  
 Ser Leu Arg Glu Ile Thr Leu Leu Leu Arg Leu Arg His Pro Asn  
 50 55 60  
 Ile Val Glu Leu Lys Glu Val Val Val Arg Asn His Leu Glu Ser  
 65 70 75  
 Ile Phe Leu Val Met Gly Tyr Cys Glu Gln Asp Leu Ala Ser Leu  
 80 85 90  
 Leu Glu Asn Met Pro Thr Pro Phe Ser Glu Ala Gln Val Lys Cys  
 95 100 105  
 Ile Val Leu Gln Val Leu Arg Gly Leu Gln Tyr Leu His Arg Asn  
 110 115 120  
 Phe Ile Ile His Arg Asp Leu Lys Val Ser Asn Leu Leu Met Thr  
 125 130 135  
 Asp Lys Gly Cys Val Lys Thr Ala Asp Phe Gly Leu Ala Arg Ala  
 140 145 150  
 Tyr Gly Val Pro Val Lys Pro Met Thr Pro Lys Val Val Thr Leu  
 155 160 165  
 Trp Tyr Arg Ala Pro Glu Leu Leu Leu Gly Thr Thr Thr Gln Thr  
 170 175 180  
 Thr Ser Ile Asp Met Trp Ala Val Gly Cys Ile Leu Ala Glu Leu  
 185 190 195  
 Leu Ala His Arg Pro Leu Leu Pro Gly Thr Ser Glu Ile His Gln  
 200 205 210  
 Ile Asp Leu Ile Val Gln Leu Leu Gly Thr Pro Ser Glu Asn Ile  
 215 220 225  
 Trp Pro Gly Phe Ser Lys Leu Pro Leu Val Gly Gln Tyr Ser Leu  
 230 235 240  
 Arg Lys Gln Pro Tyr Asn Asn Leu Lys His Lys Phe Pro Trp Leu  
 245 250 255  
 Ser Glu Ala Gly Leu Arg Leu Leu His Phe Leu Phe Met Tyr Asp  
 260 265 270  
 Pro Lys Lys Arg Ala Thr Ala Gly Asp Cys Leu Glu Ser Ser Tyr  
 275 280 285  
 Phe Lys Glu Lys Pro Leu Pro Cys Glu Pro Glu Leu Met Pro Thr  
 290 295 300  
 Phe Pro His His Arg Asn Lys Arg Ala Ala Pro Ala Thr Ser Glu  
 305 310 315  
 Gly Gln Ser Lys Arg Cys Lys Pro  
 320

<210> 11  
 <211> 73  
 <212> PRT  
 <213> Homo sapiens

<220>  
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 <223> Incyte ID No: 7521886CD1

&lt;400&gt; 11

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Met Ser Arg Ser Leu Asp Ser Ala Arg Ser Phe Leu Glu Arg Leu
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Glu Ala Arg Gly Gly Arg Glu Gly Ala Val Leu Ala Gly Glu Phe
          20          25          30
Ser Asp Ile Gln Ala Cys Ser Ala Ala Trp Lys Ala Asp Gly Val
          35          40          45
Cys Ser Thr Val Ala Gly Ser Arg Pro Glu Asn Val Arg Lys Asn
          50          55          60
Arg Tyr Lys Asp Val Leu Pro Cys Lys Ser Gly Leu Pro
          65          70

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&lt;210&gt; 12

&lt;211&gt; 237

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 7521897CD1

&lt;400&gt; 12

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Met Glu Ala Pro Gly Pro Ala Gln Ala Ala Ala Ala Glu Ser Asn
 1          5          10          15
Ser Arg Glu Val Thr Glu Asp Ala Ala Asp Trp Ala Pro Ala Leu
          20          25          30
Cys Pro Ser Pro Glu Ala Arg Ser Pro Glu Ala Pro Ala Tyr Arg
          35          40          45
Leu Gln Asp Cys Asp Ala Leu Val Thr Met Gly Thr Gly Thr Phe
          50          55          60
Gly Arg Val His Leu Val Lys Glu Lys Thr Ala Lys His Phe Phe
          65          70          75
Ala Leu Lys Val Met Ser Ile Pro Asp Val Ile Arg Arg Lys Gln
          80          85          90
Glu Gln His Val His Asn Glu Lys Ser Val Leu Lys Glu Val Ser
          95          100          105
His Pro Phe Leu Ile Arg Leu Phe Trp Thr Trp His Glu Glu Arg
          110          115          120
Phe Leu Tyr Met Leu Met Glu Tyr Val Pro Gly Gly Glu Leu Phe
          125          130          135
Ser Tyr Leu Arg Asn Arg Gly His Phe Ser Ser Thr Thr Gly Leu
          140          145          150
Phe Tyr Ser Ala Glu Ile Ile Cys Ala Ile Glu Tyr Leu His Ser
          155          160          165
Lys Glu Ile Val Tyr Arg Asp Leu Lys Pro Glu Asn Ile Leu Leu
          170          175          180
Asp Arg Asp Gly His Ile Lys Leu Thr Asp Phe Gly Phe Ala Lys
          185          190          195
Lys Leu Val Asp Arg Phe Pro Pro Phe Phe Asp Asp Asn Pro Phe
          200          205          210
Gly Ile Tyr Gln Lys Ile Leu Ala Gly Lys Leu Tyr Phe Pro Arg
          215          220          225
His Leu Asp Phe His Val Lys Thr Gly Arg Met Met
          230          235

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&lt;210&gt; 13

&lt;211&gt; 80

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 7521995CD1



&lt;400&gt; 13

Met	Ala	Glu	Gln	Ala	Thr	Lys	Ser	Val	Leu	Phe	Val	Cys	Leu	Gly
1				5					10					15
Asn	Ile	Cys	Arg	Ser	Pro	Ile	Ala	Glu	Ala	Val	Phe	Arg	Lys	Leu
				20					25					30
Val	Thr	Asp	Gln	Asn	Ile	Ser	Glu	Asn	Trp	Arg	Val	Asp	Ser	Ala
				35					40					45
Ala	Thr	Ser	Gly	Tyr	Glu	Ile	Gly	Asn	Pro	Pro	Asp	Tyr	Arg	Gly
				50					55					60
Gln	Ser	Cys	Met	Lys	Arg	His	Gly	Ile	Pro	Met	Ser	His	Val	Ala
				65					70					75
Arg	Gln	Arg	Phe	Glu										
				80										

&lt;210&gt; 14

&lt;211&gt; 424

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 7522018CD1

&lt;400&gt; 14

Met	Glu	Leu	Glu	Asn	Ile	Val	Ala	Asn	Ser	Leu	Leu	Leu	Lys	Ala
1				5					10					15
Arg	Gln	Glu	Lys	Asp	Tyr	Ser	Ser	Leu	Cys	Asp	Lys	Gln	Pro	Ile
				20					25					30
Gly	Arg	Arg	Leu	Phe	Arg	Gln	Phe	Cys	Asp	Thr	Lys	Pro	Thr	Leu
				35					40					45
Lys	Arg	His	Ile	Glu	Phe	Leu	Asp	Ala	Val	Ala	Glu	Tyr	Glu	Val
				50					55					60
Ala	Asp	Asp	Glu	Asp	Arg	Ser	Asp	Cys	Gly	Leu	Ser	Ile	Leu	Asp
				65					70					75
Arg	Phe	Phe	Asn	Asp	Lys	Leu	Ala	Ala	Pro	Leu	Pro	Glu	Ile	Pro
				80					85					90
Pro	Asp	Val	Val	Thr	Glu	Cys	Arg	Leu	Gly	Leu	Lys	Glu	Glu	Asn
				95					100					105
Pro	Ser	Lys	Lys	Ala	Phe	Glu	Glu	Cys	Thr	Arg	Val	Ala	His	Asn
				110					115					120
Tyr	Leu	Arg	Gly	Glu	Pro	Phe	Glu	Glu	Tyr	Gln	Glu	Ser	Pro	Tyr
				125					130					135
Phe	Ser	Gln	Phe	Leu	Gln	Trp	Lys	Trp	Leu	Glu	Arg	Gln	Pro	Val
				140					145					150
Thr	Lys	Asn	Thr	Phe	Arg	His	Tyr	Arg	Val	Leu	Gly	Lys	Gly	Gly
				155					160					165
Phe	Gly	Glu	Val	Cys	Ala	Cys	Gln	Val	Arg	Ala	Thr	Gly	Lys	Met
				170					175					180
Tyr	Ala	Cys	Lys	Lys	Leu	Gln	Lys	Lys	Arg	Ile	Lys	Lys	Arg	Thr
				185					190					195
Gly	Glu	Ala	Met	Ala	Leu	Asn	Glu	Lys	Arg	Ile	Leu	Glu	Lys	Val
				200					205					210
Gln	Ser	Arg	Phe	Val	Val	Ser	Leu	Ala	Tyr	Ala	Tyr	Glu	Thr	Lys
				215					220					225
Asp	Ala	Leu	Cys	Leu	Val	Leu	Thr	Ile	Met	Asn	Gly	Gly	Asp	Leu
				230					235					240
Lys	Phe	His	Ile	Tyr	Asn	Leu	Gly	Asn	Pro	Gly	Phe	Asp	Glu	Gln
				245					250					255
Arg	Ala	Val	Phe	Tyr	Ala	Ala	Glu	Leu	Cys	Cys	Gly	Leu	Glu	Asp
				260					265					270
Leu	Gln	Arg	Glu	Arg	Ile	Val	Tyr	Arg	Asp	Leu	Lys	Pro	Glu	Asn
				275					280					285
Ile	Leu	Leu	Asp	Asp	Arg	Ala	Pro	Glu	Val	Val	Asn	Asn	Glu	Lys

	290		295		300
Tyr Thr Phe Ser	Pro Asp Trp Trp Gly	Leu Gly Cys Leu Ile Tyr			
	305		310		315
Glu Met Ile Gln	Gly His Ser Pro Phe	Lys Lys Tyr Lys Glu Lys			
	320		325		330
Val Lys Trp Glu	Glu Val Asp Gln Arg	Ile Lys Asn Asp Thr Glu			
	335		340		345
Glu Tyr Ser Glu	Lys Phe Ser Glu Asp	Ala Lys Ser Ile Cys Arg			
	350		355		360
Met Met Ile Glu	Ser Gly Cys Phe Lys	Asp Ile Asn Lys Ser Glu			
	365		370		375
Ser Glu Glu Ala	Leu Pro Leu Asp Leu	Asp Lys Asn Ile His Thr			
	380		385		390
Pro Val Ser Arg	Pro Asn Arg Gly Phe	Phe Tyr Arg Leu Phe Arg			
	395		400		405
Arg Gly Gly Cys	Leu Thr Met Val Pro	Ser Glu Lys Glu Val Glu			
	410		415		420
Pro Lys Gln Cys					

<210> 15  
 <211> 2091  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 7523799CD1

<400> 15

Met Glu Pro Gly Arg	Gly Ala Gly Pro	Ala Gly Met Ala Glu Pro			
1	5	10			15
Arg Ala Lys Ala Ala	Arg Pro Gly Pro	Gln Arg Phe Leu Arg Arg			
	20	25			30
Ser Val Val Glu Ser	Asp Gln Glu Glu	Pro Pro Gly Leu Glu Ala			
	35	40			45
Ala Glu Ala Pro Gly	Pro Gln Pro Pro	Gln Pro Leu Gln Arg Arg			
	50	55			60
Val Leu Leu Leu Cys	Lys Thr Arg Arg	Leu Ile Ala Glu Arg Ala			
	65	70			75
Arg Gly Arg Pro Ala	Ala Pro Ala Pro	Ala Ala Leu Val Ala Gln			
	80	85			90
Pro Gly Ala Pro Gly	Ala Pro Ala Asp	Ala Gly Pro Glu Pro Val			
	95	100			105
Gly Thr Gln Glu Pro	Gly Pro Asp Pro	Ile Ala Ala Ala Val Glu			
	110	115			120
Thr Ala Pro Ala Pro	Asp Gly Gly Pro	Arg Glu Glu Ala Ala Ala			
	125	130			135
Thr Val Arg Lys Glu	Asp Glu Gly Ala	Ala Glu Ala Lys Pro Glu			
	140	145			150
Pro Gly Arg Thr Arg	Arg Asp Glu Pro	Glu Glu Glu Glu Asp Asp			
	155	160			165
Glu Asp Asp Leu Lys	Ala Val Ala Thr	Ser Leu Asp Gly Arg Phe			
	170	175			180
Leu Lys Phe Asp Ile	Glu Leu Gly Arg	Gly Ser Phe Lys Thr Val			
	185	190			195
Tyr Lys Gly Leu Asp	Thr Glu Thr Trp	Val Glu Val Ala Trp Cys			
	200	205			210
Glu Leu Gln Asp Arg	Lys Leu Thr Lys	Leu Glu Arg Gln Arg Phe			
	215	220			225
Lys Glu Glu Ala Glu	Met Leu Lys Gly	Leu Gln His Pro Asn Ile			
	230	235			240
Val Arg Phe Tyr Asp	Phe Trp Glu Ser	Ser Ala Lys Gly Lys Arg			

Cys Ile Val Leu	245	Thr Glu Leu Met	250	Thr Ser Gly Thr Leu Lys	255
Thr Tyr Leu Lys	260	Arg Phe Lys Val Met	265	Lys Pro Lys Val Leu Arg	270
Ser Trp Cys Arg	275	Gln Ile Leu Lys Gly	280	Leu Leu Phe Leu His Thr	285
Arg Thr Pro Pro	290	Ile Ile His Arg Asp	295	Leu Lys Cys Asp Asn Ile	300
Phe Ile Thr Gly	305	Pro Thr Gly Ser Val	310	Lys Ile Gly Asp Leu Gly	315
Leu Ala Thr Leu	320	Lys Arg Ala Ser Phe	325	Ala Lys Ser Val Ile Gly	330
Thr Pro Glu Phe	335	Met Ala Pro Glu Met	340	Tyr Glu Glu His Tyr Asp	345
Glu Ser Val Asp	350	Val Tyr Ala Phe Gly	355	Met Cys Met Leu Glu Met	360
Ala Thr Ser Glu	365	Tyr Pro Tyr Ser Glu	370	Cys Gln Asn Ala Ala Gln	375
Ile Tyr Arg Lys	380	Val Thr Cys Gly Ile	385	Lys Pro Ala Ser Phe Glu	390
Lys Val His Asp	395	Pro Glu Ile Lys Glu	400	Ile Ile Gly Gly Cys Ile	405
Cys Lys Asn Lys	410	Glu Glu Arg Tyr Glu	415	Ile Lys Asp Leu Leu Ser	420
His Ala Phe Phe	425	Ala Glu Asp Thr Gly	430	Val Arg Val Glu Leu Ala	435
Glu Glu Asp His	440	Gly Arg Lys Ser Thr	445	Ile Ala Leu Arg Leu Trp	450
Val Glu Asp Pro	455	Lys Lys Leu Lys Gly	460	Lys Pro Lys Asp Asn Gly	465
Ala Ile Glu Phe	470	Thr Phe Asp Leu Glu	475	Lys Glu Thr Pro Asp Glu	480
Val Ala Gln Glu	485	Met Ile Glu Ser Gly	490	Phe Phe His Glu Ser Asp	495
Val Lys Ile Val	500	Ala Lys Ser Ile Arg	505	Asp Arg Val Ala Leu Ile	510
Gln Trp Arg Arg	515	Glu Arg Ile Trp Pro	520	Ala Leu Gln Pro Lys Glu	525
Gln Gln Asp Val	530	Gly Ser Pro Asp Lys	535	Ala Arg Gly Pro Pro Val	540
Pro Leu Gln Val	545	Gln Val Thr Tyr His	550	Ala Gln Ala Gly Gln Pro	555
Gly Pro Pro Glu	560	Pro Glu Glu Pro Glu	565	Ala Asp Gln His Leu Leu	570
Pro Pro Thr Leu	575	Pro Thr Ser Ala Thr	580	Ser Leu Ala Ser Asp Ser	585
Thr Phe Asp Ser	590	Gly Gln Gly Ser Thr	595	Val Tyr Ser Asp Ser Gln	600
Ser Ser Gln Gln	605	Ser Val Met Leu Gly	610	Ser Leu Ala Asp Ala Ala	615
Pro Ser Pro Ala	620	Gln Cys Val Cys Ser	625	Pro Pro Val Ser Glu Gly	630
Pro Val Leu Pro	635	Gln Ser Leu Pro Ser	640	Leu Gly Ala Tyr Gln Gln	645
Pro Thr Ala Ala	650	Pro Gly Leu Pro Val	655	Gly Ser Val Pro Ala Pro	660
Ala Cys Pro Pro	665	Ser Leu Gln Gln His	670	Phe Pro Asp Pro Ala Met	675
Ser Phe Ala Pro	680	Val Leu Pro Pro Pro	685	Ser Thr Pro Met Pro Thr	690
Gly Pro Gly Gln	695	Pro Ala Pro Pro Gly	700	Gln Gln Pro Pro Pro Leu	705
	710		715		720

Ala	Gln	Pro	Thr	Pro	Leu	Pro	Gln	Val	Leu	Ala	Pro	Gln	Pro	Val
				725					730					735
Val	Pro	Leu	Gln	Pro	Val	Pro	Pro	His	Leu	Pro	Pro	Tyr	Leu	Ala
				740					745					750
Pro	Ala	Ser	Gln	Val	Gly	Ala	Pro	Ala	Gln	Leu	Lys	Pro	Leu	Gln
				755					760					765
Met	Pro	Gln	Ala	Pro	Leu	Gln	Pro	Leu	Ala	Gln	Val	Pro	Pro	Gln
				770					775					780
Met	Pro	Pro	Ile	Pro	Val	Val	Pro	Pro	Ile	Thr	Pro	Leu	Ala	Gly
				785					790					795
Ile	Asp	Gly	Leu	Pro	Pro	Ala	Leu	Pro	Asp	Leu	Pro	Thr	Ala	Thr
				800					805					810
Val	Pro	Pro	Met	Pro	Pro	Pro	Gln	Tyr	Phe	Ser	Pro	Ala	Val	Ile
				815					820					825
Leu	Pro	Ser	Leu	Ala	Ala	Pro	Leu	Pro	Pro	Ala	Ser	Pro	Ala	Leu
				830					835					840
Pro	Leu	Gln	Ala	Val	Lys	Leu	Pro	His	Pro	Pro	Gly	Ala	Pro	Leu
				845					850					855
Ala	Met	Pro	Cys	Arg	Thr	Ile	Val	Pro	Asn	Ala	Pro	Ala	Thr	Ile
				860					865					870
Pro	Leu	Leu	Ala	Val	Ala	Pro	Pro	Gly	Val	Ala	Ala	Leu	Ser	Ile
				875					880					885
His	Ser	Ala	Val	Ala	Gln	Leu	Pro	Gly	Gln	Pro	Val	Tyr	Pro	Ala
				890					895					900
Ala	Phe	Pro	Gln	Met	Ala	Pro	Thr	Asp	Val	Pro	Pro	Ser	Pro	His
				905					910					915
His	Thr	Val	Gln	Asn	Met	Arg	Ala	Thr	Pro	Pro	Gln	Pro	Ala	Leu
				920					925					930
Pro	Pro	Gln	Pro	Thr	Leu	Pro	Pro	Gln	Pro	Val	Leu	Pro	Pro	Gln
				935					940					945
Pro	Thr	Leu	Pro	Pro	Gln	Pro	Val	Leu	Pro	Pro	Gln	Pro	Thr	Arg
				950					955					960
Pro	Pro	Gln	Pro	Val	Leu	Pro	Pro	Gln	Pro	Met	Leu	Pro	Pro	Gln
				965					970					975
Pro	Val	Leu	Pro	Pro	Gln	Pro	Ala	Leu	Pro	Val	Arg	Pro	Glu	Pro
				980					985					990
Leu	Gln	Pro	His	Leu	Pro	Glu	Gln	Ala	Ala	Pro	Ala	Ala	Thr	Pro
				995					1000					1005
Gly	Ser	Gln	Ile	Leu	Leu	Gly	His	Pro	Ala	Pro	Tyr	Ala	Val	Asp
				1010					1015					1020
Val	Ala	Ala	Gln	Val	Pro	Thr	Val	Pro	Val	Pro	Pro	Ala	Ala	Val
				1025					1030					1035
Leu	Ser	Pro	Pro	Leu	Pro	Glu	Val	Leu	Leu	Pro	Ala	Ala	Pro	Glu
				1040					1045					1050
Leu	Leu	Pro	Gln	Phe	Pro	Ser	Ser	Leu	Ala	Thr	Val	Ser	Ala	Ser
				1055					1060					1065
Val	Gln	Ser	Val	Pro	Thr	Gln	Thr	Ala	Thr	Leu	Leu	Pro	Pro	Ala
				1070					1075					1080
Asn	Pro	Pro	Leu	Pro	Gly	Gly	Pro	Gly	Ile	Ala	Ser	Pro	Cys	Pro
				1085					1090					1095
Thr	Val	Gln	Leu	Thr	Val	Glu	Pro	Val	Gln	Glu	Glu	Gln	Ala	Ser
				1100					1105					1110
Gln	Asp	Lys	Pro	Pro	Gly	Leu	Pro	Gln	Ser	Cys	Glu	Ser	Tyr	Gly
				1115					1120					1125
Gly	Ser	Asp	Val	Thr	Ser	Gly	Lys	Glu	Leu	Ser	Asp	Ser	Cys	Glu
				1130					1135					1140
Gly	Ala	Phe	Gly	Gly	Gly	Arg	Leu	Glu	Gly	Arg	Ala	Ala	Arg	Lys
				1145					1150					1155
His	His	Arg	Arg	Ser	Thr	Arg	Ala	Arg	Ser	Arg	Gln	Glu	Arg	Ala
				1160					1165					1170
Ser	Arg	Pro	Arg	Leu	Thr	Ile	Leu	Asn	Val	Cys	Asn	Thr	Gly	Asp
				1175					1180					1185
Lys	Met	Val	Glu	Cys	Gln	Leu	Glu	Thr	His	Asn	His	Lys	Met	Val

1190	1195	1200
Thr Phe Lys Phe Asp Leu Asp Gly Asp Ala Pro Asp Glu Ile Ala		
1205	1210	1215
Thr Tyr Met Val Glu His Asp Phe Ile Leu Gln Ala Glu Arg Glu		
1220	1225	1230
Thr Phe Ile Glu Gln Met Lys Asp Val Met Asp Lys Ala Glu Asp		
1235	1240	1245
Met Leu Ser Glu Asp Thr Asp Ala Asp Arg Gly Ser Asp Pro Gly		
1250	1255	1260
Thr Ser Pro Pro His Leu Ser Thr Cys Gly Leu Gly Thr Gly Glu		
1265	1270	1275
Glu Ser Arg Gln Ser Gln Ala Asn Ala Pro Val Tyr Gln Gln Asn		
1280	1285	1290
Val Leu His Thr Gly Lys Arg Trp Phe Ile Ile Cys Pro Val Ala		
1295	1300	1305
Glu His Pro Ala Pro Glu Ala Pro Glu Ser Ser Pro Pro Leu Pro		
1310	1315	1320
Leu Ser Ser Leu Pro Pro Glu Ala Ser Gln Asp Ser Ala Pro Tyr		
1325	1330	1335
Lys Asp Gln Leu Ser Ser Lys Glu Gln Pro Ser Phe Leu Ala Ser		
1340	1345	1350
Gln Gln Leu Leu Ser Gln Ala Gly Pro Ser Asn Pro Pro Gly Ala		
1355	1360	1365
Pro Pro Ala Pro Leu Ala Pro Ser Ser Pro Pro Val Thr Ala Leu		
1370	1375	1380
Pro Gln Asp Gly Ala Ala Pro Ala Thr Ser Thr Met Pro Glu Pro		
1385	1390	1395
Ala Ser Gly Thr Ala Ser Gln Ala Gly Gly Pro Gly Thr Pro Gln		
1400	1405	1410
Gly Leu Thr Ser Glu Leu Glu Thr Ser Gln Pro Leu Ala Glu Thr		
1415	1420	1425
His Glu Ala Pro Leu Ala Val Gln Pro Leu Val Val Gly Leu Ala		
1430	1435	1440
Pro Cys Thr Pro Ala Pro Glu Ala Ala Ser Thr Arg Asp Ala Ser		
1445	1450	1455
Ala Pro Arg Glu Pro Leu Pro Pro Pro Ala Pro Glu Pro Ser Pro		
1460	1465	1470
His Ser Gly Thr Pro Gln Pro Ala Leu Gly Gln Pro Ala Pro Leu		
1475	1480	1485
Leu Pro Ala Ala Val Gly Ala Val Ser Leu Ala Thr Ser Gln Leu		
1490	1495	1500
Pro Ser Pro Pro Leu Gly Pro Thr Val Pro Pro Gln Pro Pro Ser		
1505	1510	1515
Ala Leu Glu Ser Asp Gly Glu Gly Pro Pro Pro Arg Val Gly Phe		
1520	1525	1530
Val Asp Ser Thr Ile Lys Ser Leu Asp Glu Lys Leu Arg Thr Leu		
1535	1540	1545
Leu Tyr Gln Glu His Val Pro Thr Ser Ser Ala Ser Ala Gly Thr		
1550	1555	1560
Pro Val Glu Val Gly Asp Arg Asp Phe Thr Leu Glu Pro Leu Arg		
1565	1570	1575
Gly Asp Gln Pro Arg Ser Glu Val Cys Gly Gly Asp Leu Ala Leu		
1580	1585	1590
Pro Pro Val Pro Lys Glu Ala Val Ser Gly Arg Val Gln Leu Pro		
1595	1600	1605
Gln Pro Leu Val Glu Lys Ser Glu Leu Ala Pro Thr Arg Gly Ala		
1610	1615	1620
Val Met Glu Gln Gly Thr Ser Ser Ser Met Thr Ala Glu Ser Ser		
1625	1630	1635
Pro Arg Ser Met Leu Gly Tyr Asp Arg Asp Gly Arg Gln Val Ala		
1640	1645	1650
Ser Asp Ser His Val Val Pro Ser Val Pro Gln Asp Val Pro Ala		
1655	1660	1665

Phe Val Arg Pro Ala Arg Val Glu Pro Thr Asp Arg Asp Gly Gly  
 1670 1675 1680  
 Glu Ala Gly Glu Ser Ser Ala Glu Pro Pro Ser Asp Met Gly  
 1685 1690 1695  
 Thr Val Gly Gly Gln Ala Ser His Pro Gln Thr Leu Gly Ala Arg  
 1700 1705 1710  
 Ala Leu Gly Ser Pro Arg Lys Arg Pro Glu Gln Gln Asp Val Ser  
 1715 1720 1725  
 Ser Pro Ala Lys Thr Val Gly Arg Phe Ser Val Val Ser Thr Gln  
 1730 1735 1740  
 Asp Glu Trp Thr Leu Ala Ser Pro His Ser Leu Arg Tyr Ser Ala  
 1745 1750 1755  
 Pro Pro Asp Val Tyr Leu Asp Glu Ala Pro Ser Ser Pro Asp Val  
 1760 1765 1770  
 Lys Leu Ala Val Arg Arg Ala Gln Thr Ala Ser Ser Ile Glu Val  
 1775 1780 1785  
 Gly Val Gly Glu Pro Val Ser Ser Asp Ser Gly Asp Glu Gly Pro  
 1790 1795 1800  
 Arg Ala Arg Pro Pro Val Gln Lys Gln Ala Ser Leu Pro Val Ser  
 1805 1810 1815  
 Gly Ser Val Ala Gly Asp Phe Val Lys Lys Ala Thr Ala Phe Leu  
 1820 1825 1830  
 Gln Arg Pro Ser Arg Ala Gly Ser Leu Gly Pro Glu Thr Pro Ser  
 1835 1840 1845  
 Arg Val Gly Met Lys Val Pro Thr Ile Ser Val Thr Ser Phe His  
 1850 1855 1860  
 Ser Gln Ser Ser Tyr Ile Ser Ser Asp Asn Asp Ser Glu Leu Glu  
 1865 1870 1875  
 Asp Ala Asp Ile Lys Lys Glu Leu Gln Ser Leu Arg Glu Lys His  
 1880 1885 1890  
 Leu Lys Glu Ile Ser Glu Leu Gln Ser Gln Gln Lys Gln Glu Ile  
 1895 1900 1905  
 Glu Ala Leu Tyr Arg Arg Leu Gly Lys Pro Leu Pro Pro Asn Val  
 1910 1915 1920  
 Gly Phe Phe His Thr Ala Pro Pro Thr Gly Arg Arg Arg Lys Thr  
 1925 1930 1935  
 Ser Lys Ser Lys Leu Lys Ala Gly Lys Leu Leu Asn Pro Leu Val  
 1940 1945 1950  
 Arg Gln Leu Lys Val Val Ala Ser Ser Thr Gly Ser Ser Thr Ser  
 1955 1960 1965  
 Ser Leu Ala Pro Gly Pro Glu Pro Gly Pro Gln Pro Ala Leu His  
 1970 1975 1980  
 Val Gln Ala Gln Val Asn Asn Ser Asn Asn Lys Lys Gly Thr Phe  
 1985 1990 1995  
 Thr Asp Asp Leu His Lys Leu Val Asp Glu Trp Thr Ser Lys Thr  
 2000 2005 2010  
 Val Gly Ala Ala Gln Leu Lys Pro Thr Leu Asn Gln Leu Lys Gln  
 2015 2020 2025  
 Thr Gln Lys Leu Gln Asp Met Glu Ala Gln Ala Gly Trp Ala Ala  
 2030 2035 2040  
 Pro Gly Glu Ala Arg Ala Met Thr Ala Pro Arg Ala Gly Val Gly  
 2045 2050 2055  
 Met Pro Arg Leu Pro Pro Ala Pro Gly Pro Leu Ser Thr Thr Val  
 2060 2065 2070  
 Ile Pro Gly Ala Ala Pro Thr Leu Ser Val Pro Thr Pro Asp Pro  
 2075 2080 2085  
 Glu Ser Glu Lys Pro Asp  
 2090

&lt;210&gt; 16

&lt;211&gt; 269

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 7521743CD1

&lt;400&gt; 16

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Met Ala Gly Ala Gly Gly Gly Asn Asp Ile Gln Trp Cys Phe Ser
 1          5          10          15
Gln Val Lys Gly Ala Val Asp Asp Asp Val Ala Glu Ala Asp Ile
          20          25          30
Ile Ser Thr Val Glu Phe Asn His Ser Gly Glu Leu Leu Ala Thr
          35          40          45
Gly Asp Lys Gly Gly Arg Val Val Ile Phe Gln Gln Glu Gln Glu
          50          55          60
Asn Lys Ile Gln Ser His Ser Arg Gly Glu Tyr Asn Val Tyr Ser
          65          70          75
Thr Phe Gln Ser His Glu Pro Glu Phe Asp Tyr Leu Lys Ser Leu
          80          85          90
Glu Ile Glu Glu Lys Ile Asn Lys Ile Arg Trp Leu Pro Gln Lys
          95          100          105
Asn Ala Ala Gln Phe Leu Leu Ser Thr Asn Asp Lys Thr Ile Lys
          110          115          120
Leu Trp Lys Ile Ser Glu Arg Asp Lys Arg Pro Glu Gly Tyr Asn
          125          130          135
Leu Lys Glu Glu Asp Gly Arg Tyr Arg Asp Pro Thr Thr Val Thr
          140          145          150
Thr Leu Arg Val Pro Val Phe Arg Pro Met Asp Leu Met Val Glu
          155          160          165
Ala Ser Pro Arg Arg Ile Phe Ala Asn Ala His Thr Tyr His Ile
          170          175          180
Asn Ser Ile Ser Ile Asn Ser Asp Tyr Glu Thr Tyr Leu Ser Ala
          185          190          195
Asp Asp Leu Arg Ile Asn Leu Trp His Leu Glu Ile Thr Asp Arg
          200          205          210
Ser Phe Asn Ile Val Asp Ile Lys Pro Ala Asn Met Glu Glu Leu
          215          220          225
Thr Glu Val Ile Thr Ala Ala Glu Phe His Pro Asn Ser Cys Asn
          230          235          240
Thr Phe Val Tyr Ser Ser Ser Lys Gly Thr Ile Arg Leu Cys Asp
          245          250          255
Met Arg Ala Ser Ala Leu Cys Asp Arg His Ser Lys Cys Ala
          260          265

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&lt;210&gt; 17

&lt;211&gt; 140

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 7522317CD1

&lt;400&gt; 17

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Met Val Gln Ala His Gly Gly Arg Ser Arg Ala Gln Pro Leu Thr
 1          5          10          15
Leu Ser Leu Gly Ala Ala Met Thr Gln Pro Pro Pro Glu Lys Thr
          20          25          30
Pro Ala Lys Lys His Val Arg Leu Gln Glu Arg Thr His Leu Leu
          35          40          45
Cys Glu His Thr Pro Gly Gly His Pro Thr Leu Ser Ala His Cys
          50          55          60
Trp Thr Pro Pro Tyr Pro Leu Gly Pro Ser Ala Pro Ala Thr Gln
          65          70          75
Pro Gln Ala Pro Gly Arg Arg Ile Leu Glu Asp Pro Ser Lys Leu

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	80		85		90									
Cys	Gln	Pro	Arg	Arg	Pro	Gly	His	Pro	Trp	Pro	Arg	Leu	Gln	Gly
	95								100					105
Pro	Ile	Gln	Asp	His	Leu	Ala	Lys	Ser	Pro	Glu	Pro	Cys	Leu	Ser
	110								115					120
Arg	Pro	Gly	Thr	Glu	Pro	Gly	Gly	Arg	Arg	Leu	His	Gln	Cys	Gln
	125								130					135
Leu	His	Pro	Arg	Leu										
	140													

<210> 18  
 <211> 264  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 7522400CD1

<400> 18														
Met	Glu	Asn	Phe	Gln	Lys	Val	Glu	Lys	Ile	Gly	Glu	Gly	Thr	Tyr
1				5					10					15
Gly	Val	Val	Tyr	Lys	Ala	Arg	Asn	Lys	Leu	Thr	Gly	Glu	Val	Val
				20					25					30
Ala	Leu	Lys	Lys	Ile	Arg	Leu	Asp	Thr	Glu	Thr	Glu	Gly	Val	Pro
				35					40					45
Ser	Thr	Ala	Ile	Arg	Glu	Ile	Ser	Leu	Leu	Lys	Glu	Leu	Asn	His
				50					55					60
Pro	Asn	Ile	Val	Lys	Leu	Leu	Asp	Val	Ile	His	Thr	Glu	Asn	Lys
				65					70					75
Leu	Tyr	Leu	Val	Phe	Glu	Phe	Leu	His	Gln	Asp	Leu	Lys	Lys	Phe
				80					85					90
Met	Asp	Ala	Ser	Ala	Leu	Thr	Gly	Ile	Pro	Leu	Pro	Leu	Ile	Lys
				95					100					105
Ser	Tyr	Leu	Phe	Gln	Leu	Leu	Gln	Gly	Leu	Ala	Phe	Cys	His	Ser
				110					115					120
His	Arg	Val	Leu	His	Arg	Asp	Leu	Lys	Pro	Gln	Asn	Leu	Leu	Ile
				125					130					135
Asn	Thr	Glu	Gly	Ala	Ile	Lys	Leu	Ala	Asp	Phe	Gly	Leu	Ala	Arg
				140					145					150
Ala	Phe	Gly	Val	Pro	Val	Arg	Thr	Tyr	Thr	His	Glu	Val	Thr	Arg
				155					160					165
Arg	Ala	Leu	Phe	Pro	Gly	Asp	Ser	Glu	Ile	Asp	Gln	Leu	Phe	Arg
				170					175					180
Ile	Phe	Arg	Thr	Leu	Gly	Thr	Pro	Asp	Glu	Val	Val	Trp	Pro	Gly
				185					190					195
Val	Thr	Ser	Met	Pro	Asp	Tyr	Lys	Pro	Ser	Phe	Pro	Lys	Trp	Ala
				200					205					210
Arg	Gln	Asp	Phe	Ser	Lys	Val	Val	Pro	Pro	Leu	Asp	Glu	Asp	Gly
				215					220					225
Arg	Ser	Leu	Leu	Ser	Gln	Met	Leu	His	Tyr	Asp	Pro	Asn	Lys	Arg
				230					235					240
Ile	Ser	Ala	Lys	Ala	Ala	Leu	Ala	His	Pro	Phe	Phe	Gln	Asp	Val
				245					250					255
Thr	Lys	Pro	Val	Pro	His	Leu	Arg	Leu						
				260										

<210> 19  
 <211> 459  
 <212> PRT  
 <213> Homo sapiens

<220>



&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 7523524CD1

&lt;400&gt; 19

Met	Val	Gln	Lys	Lys	Pro	Ala	Glu	Leu	Gln	Gly	Phe	His	Arg	Ser	
1				5					10					15	
Phe	Lys	Gly	Gln	Asn	Pro	Phe	Glu	Leu	Ala	Phe	Ser	Leu	Asp	Gln	
				20					25					30	
Pro	Asp	His	Gly	Asp	Ser	Asp	Phe	Gly	Leu	Gln	Cys	Ser	Ala	Arg	
				35					40					45	
Pro	Gly	Glu	Gly	Pro	Glu	Gly	Glu	Glu	Thr	Gly	Gln	Leu	Leu		
				50					55					60	
Ser	Leu	Pro	Trp	Gln	Trp	Pro	Ala	Pro	Ala	Gly	Gly	Trp	Gly	Pro	
				65					70					75	
Ala	Gly	Gln	Gly	His	Val	Leu	Ser	Pro	Leu	Gly	Val	Pro	Pro	Gly	
				80					85					90	
Thr	Asp	Met	Pro	Ala	Ser	Gln	Pro	Ile	Asp	Ile	Pro	Asp	Ala	Lys	
				95					100					105	
Lys	Arg	Gly	Lys	Lys	Lys	Lys	Arg	Gly	Arg	Ala	Thr	Asp	Ser	Phe	
				110					115					120	
Ser	Gly	Arg	Phe	Glu	Asp	Val	Tyr	Gln	Leu	Gln	Glu	Asp	Val	Leu	
				125					130					135	
Gly	Glu	Gly	Ala	His	Ala	Arg	Val	Gln	Thr	Cys	Ile	Asn	Leu	Ile	
				140					145					150	
Thr	Ser	Gln	Glu	Tyr	Ala	Val	Lys	Ile	Ile	Glu	Lys	Gln	Pro	Gly	
				155					160					165	
His	Ile	Arg	Ser	Arg	Val	Phe	Arg	Glu	Val	Glu	Met	Leu	Tyr	Gln	
				170					175					180	
Cys	Gln	Gly	His	Arg	Asn	Val	Leu	Glu	Leu	Ile	Glu	Phe	Phe	Glu	
				185					190					195	
Glu	Glu	Asp	Arg	Phe	Tyr	Leu	Val	Phe	Glu	Lys	Met	Arg	Gly	Gly	
				200					205					210	
Ser	Ile	Leu	Ser	His	Ile	His	Lys	Arg	Arg	His	Phe	Asn	Glu	Leu	
				215					220					225	
Glu	Ala	Ser	Val	Val	Val	Gln	Asp	Val	Ala	Ser	Ala	Leu	Asp	Phe	
				230					235					240	
Leu	His	Asn	Lys	Gly	Ile	Ala	His	Arg	Asp	Leu	Lys	Pro	Glu	Asn	
				245					250					255	
Ile	Leu	Cys	Glu	His	Pro	Asn	Gln	Val	Ser	Pro	Val	Lys	Ile	Cys	
				260					265					270	
Asp	Phe	Asp	Leu	Gly	Ser	Gly	Ile	Lys	Leu	Asn	Gly	Asp	Cys	Ser	
				275					280					285	
Pro	Ile	Ser	Thr	Pro	Glu	Leu	Leu	Thr	Pro	Cys	Gly	Ser	Ala	Glu	
				290					295					300	
Tyr	Met	Ala	Pro	Glu	Val	Val	Glu	Ala	Phe	Ser	Glu	Glu	Ala	Ser	
				305					310					315	
Ile	Tyr	Asp	Lys	Arg	Cys	Asp	Leu	Trp	Ser	Leu	Gly	Val	Ile	Leu	
				320					325					330	
Tyr	Ile	Leu	Leu	Ser	Gly	Tyr	Pro	Pro	Phe	Val	Gly	Arg	Cys	Gly	
				335					340					345	
Ser	Asp	Cys	Gly	Trp	Asp	Arg	Gly	Glu	Ala	Cys	Pro	Ala	Cys	Gln	
				350					355					360	
Asn	Met	Leu	Phe	Glu	Ser	Ile	Gln	Glu	Gly	Lys	Tyr	Glu	Phe	Pro	
				365					370					375	
Asp	Lys	Asp	Trp	Ala	His	Ile	Ser	Cys	Ala	Ala	Lys	Asp	Leu	Ile	
				380					385					390	
Ser	Lys	Leu	Leu	Val	Arg	Asp	Ala	Lys	Gln	Arg	Leu	Ser	Ala	Ala	
				395					400					405	
Gln	Val	Leu	Gln	His	Pro	Trp	Val	Gln	Gly	Cys	Ala	Pro	Glu	Asn	
				410					415					420	
Thr	Leu	Pro	Thr	Pro	Met	Val	Leu	Gln	Arg	Trp	Asp	Ser	His	Phe	
				425					430					435	
Leu	Leu	Pro	Pro	His	Pro	Cys	Arg	Ile	His	Val	Arg	Pro	Gly	Gly	

440  
 Leu Val Arg Thr Val Thr Val Asn Glu  
 445  
 450  
 455

<210> 20  
 <211> 537  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 7523542CD1

<400> 20

Met	Ala	Gly	Ala	Ser	Glu	Leu	Gly	Thr	Gly	Pro	Gly	Ala	Ala	Gly	1	5	10	15
Gly	Asp	Gly	Asp	Asp	Ser	Leu	Tyr	Pro	Ile	Ala	Val	Leu	Ile	Asp	20	25	30	35
Glu	Leu	Arg	Asn	Glu	Asp	Val	Gln	Pro	Pro	Leu	Glu	Asn	Leu	Ala	40	45	50	55
Thr	Val	Glu	Glu	Thr	Val	Val	Arg	Asp	Lys	Ala	Val	Glu	Ser	Leu	60	65	70	75
Arg	Gln	Ile	Ser	Gln	Glu	His	Thr	Pro	Val	Ala	Leu	Glu	Ala	Tyr	80	85	90	95
Phe	Val	Pro	Leu	Val	Lys	Arg	Leu	Ala	Ser	Gly	Asp	Trp	Phe	Thr	100	105	110	115
Ser	Arg	Thr	Ser	Ala	Cys	Gly	Leu	Phe	Ser	Val	Cys	Tyr	Pro	Arg	120	125	130	135
Ala	Ser	Asn	Ala	Val	Lys	Ala	Glu	Ile	Arg	Gln	Gln	Phe	Arg	Ser	140	145	150	155
Leu	Cys	Ser	Asp	Asp	Thr	Pro	Met	Val	Arg	Arg	Ala	Ala	Ala	Ser	160	165	170	175
Lys	Leu	Gly	Glu	Phe	Ala	Lys	Val	Leu	Glu	Leu	Asp	Ser	Val	Lys	180	185	190	195
Ser	Glu	Ile	Val	Pro	Leu	Phe	Thr	Ser	Leu	Ala	Ser	Asp	Glu	Gln	200	205	210	215
Asp	Ser	Val	Arg	Leu	Leu	Ala	Val	Glu	Ala	Cys	Val	Ser	Ile	Ala	220	225	230	235
Gln	Leu	Leu	Ser	Gln	Asp	Asp	Leu	Glu	Thr	Leu	Val	Met	Pro	Thr	240	245	250	255
Leu	Arg	Gln	Ala	Ala	Glu	Asp	Lys	Ser	Trp	Arg	Val	Arg	Tyr	Met	260	265	270	275
Val	Ala	Asp	Arg	Phe	Ser	Glu	Leu	Gln	Lys	Ala	Met	Gly	Pro	Lys	280	285	290	295
Ile	Thr	Leu	Asn	Asp	Leu	Ile	Pro	Ala	Phe	Gln	Asn	Leu	Leu	Lys	300	305	310	315
Asp	Cys	Glu	Ala	Glu	Val	Arg	Ala	Ala	Ala	Ala	His	Lys	Val	Lys	320	325	330	335
Glu	Leu	Gly	Glu	Asn	Leu	Pro	Ile	Glu	Asp	Arg	Glu	Thr	Ile	Ile	340	345	350	355
Met	Asn	Gln	Ile	Leu	Pro	Tyr	Ile	Lys	Glu	Leu	Val	Ser	Asp	Thr	360			
Asn	Gln	His	Val	Lys	Ser	Ala	Leu	Ala	Ser	Val	Ile	Met	Gly	Leu				
Ser	Thr	Ile	Leu	Gly	Lys	Glu	Asn	Thr	Ile	Glu	His	Leu	Leu	Pro				
Leu	Phe	Leu	Ala	Gln	Leu	Lys	Asp	Glu	Cys	Pro	Asp	Val	Arg	Leu				
Asn	Ile	Ile	Ser	Asn	Leu	Asp	Cys	Val	Asn	Glu	Val	Ile	Gly	Ile				
Arg	Gln	Leu	Ser	Gln	Ser	Leu	Leu	Pro	Ala	Ile	Val	Glu	Leu	Ala				
Glu	Asp	Ala	Lys	Trp	Arg	Val	Arg	Leu	Ala	Ile	Ile	Glu	Tyr	Met				

Pro Leu Leu Ala	365	Gly Gln Leu Gly Val	370	Glu Phe Phe Asp Glu Lys	375
Leu Asn Ser Leu	380	Cys Met Ala Trp Leu	385	Val Asp His Val Tyr Ala	390
Ile Arg Glu Ala	395	Ala Thr Asn Asn Leu	400	Met Lys Leu Val Gln Lys	405
Phe Gly Thr Glu	410	Trp Ala Gln Asn Thr	415	Ile Val Pro Lys Val Leu	420
Val Met Ala Asn	425	Asp Pro Asn Tyr Leu	430	His Arg Met Thr Thr Leu	435
Phe Cys Ile Asn	440	Ala Leu Ser Glu Ala	445	Cys Gly Gln Glu Ile Thr	450
Thr Lys Gln Met	455	Leu Pro Ile Val Leu	460	Lys Met Ala Gly Asp Gln	465
Val Ala Asn Val	470	Arg Phe Asn Val Ala	475	Lys Ser Leu Gln Lys Ile	480
Gly Pro Ile Leu	485	Asp Thr Asn Ala Leu	490	Gln Gly Glu Val Lys Pro	495
Val Leu Gln Lys	500	Leu Gly Gln Asp Glu	505	Asp Met Asp Val Lys Tyr	510
Phe Ala Gln Glu	515	Ala Ile Ser Val Leu	520	Ala Leu Ala	525
	530		535		

&lt;210&gt; 21

&lt;211&gt; 586

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 7523546CD1

&lt;400&gt; 21

Met Ser Arg Glu Ser	Asp Val Glu Ala Gln	Gln Ser His Gly Ser
1	5	10
Ser Ala Cys Ser Gln	Pro His Gly Ser Val	Thr Gln Ser Gln Gly
20	25	30
Ser Ser Ser Gln Ser	Gln Gly Ile Ser Ser	Ser Ser Thr Ser Thr
35	40	45
Met Pro Asn Ser Ser	Gln Ser Ser His Ser	Ser Ser Gly Thr Leu
50	55	60
Ser Ser Leu Glu Thr	Val Ser Thr Gln Glu	Leu Tyr Ser Ile Pro
65	70	75
Glu Asp Gln Glu Pro	Glu Asp Gln Glu Pro	Glu Glu Pro Thr Pro
80	85	90
Ala Pro Trp Ala Arg	Leu Trp Ala Leu Gln	Asp Gly Phe Ala Asn
95	100	105
Leu Glu Thr Glu Ser	Gly His Val Thr Gln	Ser Asp Leu Glu Leu
110	115	120
Leu Leu Ser Ser Asp	Pro Pro Ala Ser Ala	Ser Gln Ser Ala Gly
125	130	135
Ile Arg Gly Val Arg	His His Pro Arg Pro	Val Cys Ser Leu Lys
140	145	150
Cys Val Asn Asp Asn	Tyr Trp Phe Gly Arg	Asp Lys Ser Cys Glu
155	160	165
Tyr Cys Phe Asp Glu	Pro Leu Leu Lys Arg	Thr Asp Lys Tyr Arg
170	175	180
Thr Tyr Ser Lys Lys	His Phe Arg Ile Phe	Arg Glu Val Gly Pro
185	190	195
Lys Asn Ser Tyr Ile	Ala Tyr Ile Glu Asp	His Ser Gly Asn Gly
200	205	210
Thr Phe Val Asn Thr	Glu Leu Val Gly Lys	Gly Lys Arg Arg Pro

215	220	225
Leu Asn Asn Asn Ser Glu Ile Ala Leu Ser Leu Ser Arg Asn Lys		
230	235	240
Val Phe Val Phe Phe Asp Leu Thr Val Asp Asp Gln Ser Val Tyr		
245	250	255
Pro Lys Ala Leu Arg Asp Glu Tyr Ile Met Ser Lys Thr Leu Gly		
260	265	270
Ser Gly Ala Cys Gly Glu Val Lys Leu Ala Phe Glu Arg Lys Thr		
275	280	285
Cys Lys Lys Val Ala Ile Lys Ile Ile Ser Lys Arg Lys Phe Ala		
290	295	300
Ile Gly Ser Ala Arg Glu Ala Asp Pro Ala Leu Asn Val Glu Thr		
305	310	315
Glu Ile Glu Ile Leu Lys Lys Leu Asn His Pro Cys Ile Ile Lys		
320	325	330
Ile Lys Asn Phe Phe Asp Ala Glu Asp Tyr Tyr Ile Val Leu Glu		
335	340	345
Leu Met Glu Gly Gly Glu Leu Phe Asp Lys Val Val Gly Asn Lys		
350	355	360
Arg Leu Lys Glu Ala Thr Cys Lys Leu Tyr Phe Tyr Gln Met Leu		
365	370	375
Leu Ala Val Gln Tyr Leu His Glu Asn Gly Ile Ile His Arg Asp		
380	385	390
Leu Lys Pro Glu Asn Val Leu Leu Ser Ser Gln Glu Glu Asp Cys		
395	400	405
Leu Ile Lys Ile Thr Asp Phe Gly His Ser Lys Ile Leu Gly Glu		
410	415	420
Thr Ser Leu Met Arg Thr Leu Cys Gly Thr Pro Thr Tyr Leu Ala		
425	430	435
Pro Glu Val Leu Val Ser Val Gly Thr Ala Gly Tyr Asn Arg Ala		
440	445	450
Val Asp Cys Trp Ser Leu Gly Val Ile Leu Phe Ile Cys Leu Ser		
455	460	465
Gly Tyr Pro Pro Phe Ser Glu His Arg Thr Gln Val Ser Leu Lys		
470	475	480
Asp Gln Ile Thr Ser Gly Lys Tyr Asn Phe Ile Pro Glu Val Trp		
485	490	495
Ala Glu Val Ser Glu Lys Ala Leu Asp Leu Val Lys Lys Leu Leu		
500	505	510
Val Val Asp Pro Lys Ala Arg Phe Thr Thr Glu Glu Ala Leu Arg		
515	520	525
His Pro Trp Leu Gln Asp Glu Asp Met Lys Arg Lys Phe Gln Asp		
530	535	540
Leu Leu Ser Glu Glu Asn Glu Ser Thr Ala Leu Pro Gln Val Leu		
545	550	555
Ala Gln Pro Ser Thr Ser Arg Lys Arg Pro Arg Glu Gly Glu Ala		
560	565	570
Glu Gly Ala Glu Thr Thr Lys Arg Pro Ala Val Cys Ala Ala Val		
575	580	585
Leu		

&lt;210&gt; 22

&lt;211&gt; 142

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 7523552CD1

&lt;400&gt; 22

Met Ser Gly Pro Arg Ala Gly Phe Tyr Arg Gln Glu Leu Asn Lys

1	5	10	15
Thr Val Trp Glu Val	Pro Gln Arg Leu	Gln Gly Leu Arg	Pro Val
20	25	30	
Gly Ser Gly Ala Tyr	Gly Ser Val Cys	Ala Tyr Asp Ala	Arg
35	40	45	
Leu Arg Gln Lys Val	Ala Val Lys Lys	Leu Ser Arg Pro	Phe Gln
50	55	60	
Ser Leu Ile His Ala	Arg Arg Thr Tyr	Arg Glu Leu Arg	Leu Leu
65	70	75	
Lys His Leu Lys His	Glu Asn Val Leu	Gly Asp His Pro	Asp Gly
80	85	90	
Arg Arg Pro Glu Gln	His Arg Gln Val	Pro Gly Ala Glu	Arg Arg
95	100	105	
Ala Arg Ser Ile Pro	Gly Leu Pro Ala	Ala Ala Arg Ala	Glu Val
110	115	120	
His Pro Leu Gly Arg	Asp His Pro Pro	Gly Pro Glu Ala	Gln Gln
125	130	135	
Arg Gly Cys Glu Arg	Gly Leu		
140			

&lt;210&gt; 23

&lt;211&gt; 325

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 7523564CD1

&lt;400&gt; 23

Met Ser Gly Arg Arg	Phe His Leu Ser	Thr Thr Asp Arg	Val Ile
1	5	10	15
Lys Ala Val Pro Phe	Pro Pro Thr Gln	Arg Leu Thr Phe	Lys Glu
20	25	30	
Val Phe Glu Asn Gly	Lys Pro Lys Val	Asp Val Leu Lys	Asn His
35	40	45	
Leu Val Lys Glu Gly	Arg Leu Glu Glu	Glu Val Ala Leu	Lys Ile
50	55	60	
Ile Asn Asp Gly Ala	Ala Ile Leu Arg	Gln Glu Lys Thr	Met Ile
65	70	75	
Glu Val Asp Ala Pro	Ile Thr Val Cys	Gly Asp Ile His	Gly Gln
80	85	90	
Phe Phe Asp Leu Met	Lys Leu Phe Glu	Val Gly Gly Ser	Pro Ser
95	100	105	
Asn Thr Arg Tyr Leu	Phe Leu Gly Asp	Tyr Val Asp Arg	Gly Tyr
110	115	120	
Phe Ser Ile Glu Cys	Val Leu Tyr Leu	Trp Ser Leu Lys	Ile Asn
125	130	135	
His Pro Lys Thr Leu	Phe Leu Leu Arg	Gly Asn His Glu	Cys Arg
140	145	150	
His Leu Thr Asp Tyr	Phe Thr Phe Lys	Gln Glu Cys Arg	Ile Lys
155	160	165	
Tyr Ser Glu Gln Val	Tyr Asp Ala Cys	Met Glu Thr Phe	Asp Cys
170	175	180	
Leu Pro Leu Ala Ala	Leu Leu Asn Gln	Gln Phe Leu Cys	Val His
185	190	195	
Gly Gly Met Ser Pro	Glu Val Thr Ser	Leu Asp Asp Ile	Arg Lys
200	205	210	
Leu Asp Arg Phe Thr	Glu Pro Pro Ala	Phe Gly Pro Val	Cys Asp
215	220	225	
Leu Leu Trp Ser Asp	Pro Ser Glu Asp	Tyr Gly Asn Glu	Lys Thr
230	235	240	
Leu Glu His Tyr Thr	His Asn Thr Val	Arg Gly Cys Ser	Tyr Phe

	245		250		255
Tyr Ser Tyr Pro	Ala Val Cys Glu Phe	Leu Gln Asn Asn Asn	Leu		
	260		265		270
Leu Ser Ile Ile	Arg Ala His Glu Ala	Gln Asp Ala Gly Tyr	Arg		
	275		280		285
Met Tyr Arg Lys	Ser Gln Ala Thr Gly	Phe Pro Ser Leu Ile	Thr		
	290		295		300
Ile Phe Ser Ala	Pro Asn Tyr Leu Asp	Val Tyr Asn Asn Lys	Glu		
	305		310		315
Ser Ala Thr His	Ser Phe Asp Tyr Pro	Gln			
	320		325		

&lt;210&gt; 24

&lt;211&gt; 488

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 7523572CD1

&lt;400&gt; 24

Met Ser Gly Arg Arg	Phe His Leu Ser Thr	Thr Asp Arg Val Ile
1	5	10
Lys Ala Val Pro Phe	Pro Pro Thr Gln Arg	Leu Thr Phe Lys Glu
	20	25
Val Phe Glu Asn Gly	Lys Pro Lys Val Asp	Val Leu Lys Asn His
	35	40
Leu Val Lys Glu Gly	Arg Leu Glu Glu Glu	Val Ala Leu Lys Ile
	50	55
Ile Asn Asp Gly Ala	Ala Ile Leu Arg Gln	Glu Lys Thr Met Ile
	65	70
Glu Val Asp Ala Pro	Ile Thr Val Cys Gly	Asp Ile His Gly Gln
	80	85
Phe Phe Asp Leu Met	Lys Leu Phe Glu Val	Gly Gly Ser Pro Ser
	95	100
Asn Thr Arg Tyr Leu	Phe Leu Gly Asp Tyr	Val Asp Arg Gly Tyr
	110	115
Phe Ser Ile Glu Cys	Val Leu Tyr Leu Trp	Ser Leu Lys Ile Asn
	125	130
His Pro Lys Thr Leu	Phe Leu Leu Arg Gly	Asn His Glu Cys Arg
	140	145
His Leu Thr Asp Tyr	Phe Thr Phe Lys Gln	Glu Cys Arg Ile Lys
	155	160
Cys Ser Glu Gln Val	Tyr Asp Ala Cys Met	Glu Thr Phe Asp Cys
	170	175
Leu Pro Leu Ala Ala	Leu Leu Asn Gln Gln	Phe Leu Cys Val His
	185	190
Gly Gly Met Ser Pro	Glu Ile Thr Ser Leu	Asp Asp Ile Arg Lys
	200	205
Leu Asp Arg Phe Thr	Glu Pro Pro Ala Phe	Gly Pro Val Cys Asp
	215	220
Leu Leu Trp Ser Asp	Pro Ser Glu Asp Tyr	Gly Asn Glu Lys Thr
	230	235
Leu Glu His Tyr Thr	His Asn Thr Val Arg	Gly Cys Ser Tyr Phe
	245	250
Tyr Ser Tyr Pro Ala	Val Cys Glu Phe Leu	Gln Asn Asn Asn Leu
	260	265
Leu Ser Ile Ile Arg	Ala His Glu Ala Gln	Asp Ala Gly Tyr Arg
	275	280
Met Tyr Arg Lys Ser	Gln Ala Thr Gly Phe	Pro Ser Leu Ile Thr
	290	295
Ile Phe Ser Ala Pro	Asn Tyr Leu Asp Val	Tyr Asn Asn Lys Ala

Ala Val Leu Lys	305		310		315
Tyr Glu Asn Asn Val		Met Asn Ile Arg Gln Phe			
320		325			330
Asn Cys Ser Pro His		Pro Asn Phe Met Asp Val			
335		340			345
Phe Thr Trp Ser Leu		Glu Lys Gly Ser Thr Thr			
350		355			360
Val Arg Lys Glu Ile		Ile Arg Ala Val Gly Lys			
365		370			375
Met Ala Arg Val Phe		Gln Glu Ser Glu Ser Val			
380		385			390
Leu Thr Leu Lys Gly		Thr Leu Pro Leu Gly			
395		400			405
Val Leu Ser Gly Gly		Glu Thr Ala Thr Val Glu			
410		415			420
Ala Val Glu Ala Arg		Gly Phe Ser Leu Gln His			
425		430			435
Lys Ile Arg Ser Phe		Gly Leu Asp Arg Ile Asn			
440		445			450
Glu Arg Met Pro Pro		Ile His Ala Gly Gly Pro			
455		460			465
Met Lys Ser Val Thr		His Ala Ala His Arg Ser			
470		475			480
Asp Gln Gly Lys Lys					
485					

<210> 25  
 <211> 113  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 7523586CD1

<400> 25	
Met Ser Glu Asp Ser	1
5	10
Asp Tyr Glu Leu Gln	15
20	25
Val Gln Ala Ala Tyr	30
35	40
Lys Arg Ile Asn Leu	45
50	55
Leu Lys Glu Ile Gln	60
65	70
Val Ser Tyr Tyr Thr	75
80	85
Val Met Lys Leu Leu	90
95	100
Ala Leu Leu Lys Ala	105
110	

<210> 26  
 <211> 902  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 7523617CD1

<400> 26

Met	Ala	Asn	Phe	Gln	Glu	His	Leu	Ser	Cys	Ser	Ser	Ser	Pro	His
1				5					10					15
Leu	Pro	Phe	Ser	Glu	Ser	Lys	Thr	Phe	Asn	Gly	Leu	Gln	Asp	Glu
				20					25					30
Leu	Thr	Ala	Met	Gly	Asn	His	Pro	Ser	Pro	Lys	Leu	Leu	Glu	Asp
				35					40					45
Gln	Gln	Glu	Lys	Gly	Met	Val	Arg	Thr	Glu	Leu	Ile	Glu	Ser	Val
				50					55					60
His	Ser	Pro	Val	Thr	Thr	Thr	Val	Leu	Thr	Ser	Val	Ser	Glu	Asp
				65					70					75
Ser	Arg	Asp	Gln	Phe	Glu	Asn	Ser	Val	Leu	Gln	Leu	Arg	Glu	His
				80					85					90
Asp	Glu	Ser	Glu	Thr	Ala	Val	Ser	Gln	Gly	Asn	Ser	Asn	Thr	Val
				95					100					105
Asp	Gly	Glu	Ser	Thr	Ser	Gly	Thr	Glu	Asp	Ile	Lys	Ile	Gln	Phe
				110					115					120
Ser	Arg	Ser	Gly	Ser	Gly	Ser	Gly	Gly	Phe	Leu	Glu	Gly	Leu	Phe
				125					130					135
Gly	Cys	Leu	Arg	Pro	Val	Trp	Asn	Ile	Ile	Gly	Lys	Ala	Tyr	Ser
				140					145					150
Thr	Asp	Tyr	Lys	Leu	Gln	Gln	Gln	Asp	Thr	Trp	Glu	Val	Pro	Phe
				155					160					165
Glu	Glu	Ile	Ser	Glu	Leu	Gln	Trp	Leu	Gly	Ser	Gly	Ala	Gln	Gly
				170					175					180
Ala	Val	Phe	Leu	Gly	Lys	Phe	Arg	Ala	Glu	Glu	Val	Ala	Ile	Lys
				185					190					195
Lys	Val	Arg	Glu	Gln	Asn	Glu	Thr	Asp	Ile	Lys	His	Leu	Arg	Lys
				200					205					210
Leu	Lys	His	Pro	Asn	Ile	Ile	Ala	Phe	Asn	Val	Leu	Val	Thr	His
				215					220					225
Thr	Asp	Ala	Val	Lys	Ile	Ser	Asp	Phe	Gly	Thr	Ser	Lys	Glu	Leu
				230					235					240
Ser	Asp	Lys	Ser	Thr	Lys	Met	Ser	Phe	Ala	Gly	Thr	Val	Ala	Trp
				245					250					255
Met	Ala	Pro	Glu	Val	Ile	Arg	Asn	Glu	Pro	Val	Ser	Glu	Lys	Val
				260					265					270
Asp	Ile	Trp	Ser	Phe	Gly	Val	Val	Leu	Arg	Glu	Leu	Leu	Thr	Gly
				275					280					285
Glu	Ile	Pro	Tyr	Lys	Asp	Val	Asp	Ser	Ser	Ala	Ile	Ile	Trp	Gly
				290					295					300
Val	Gly	Ser	Asn	Ser	Leu	His	Leu	Pro	Val	Pro	Ser	Thr	Cys	Pro
				305					310					315
Asp	Gly	Phe	Lys	Ile	Leu	Met	Lys	Gln	Thr	Trp	Gln	Ser	Lys	Pro
				320					325					330
Arg	Asn	Arg	Pro	Ser	Phe	Arg	Gln	Thr	Leu	Met	His	Leu	Asp	Ile
				335					340					345
Ala	Ser	Ala	Asp	Val	Leu	Ala	Thr	Pro	Gln	Glu	Thr	Tyr	Phe	Lys
				350					355					360
Ser	Gln	Ala	Glu	Trp	Arg	Glu	Glu	Val	Lys	Lys	His	Phe	Glu	Lys
				365					370					375
Ile	Lys	Ser	Glu	Gly	Thr	Cys	Ile	His	Arg	Leu	Asp	Glu	Glu	Leu
				380					385					390
Ile	Arg	Arg	Arg	Arg	Glu	Glu	Leu	Arg	His	Ala	Leu	Asp	Ile	Arg
				395					400					405
Glu	His	Tyr	Glu	Arg	Lys	Leu	Glu	Arg	Ala	Asn	Asn	Leu	Tyr	Met
				410					415					420
Glu	Leu	Ser	Ala	Ile	Met	Leu	Gln	Leu	Glu	Met	Arg	Glu	Lys	Glu
				425					430					435
Leu	Ile	Lys	Arg	Glu	Gln	Ala	Val	Glu	Lys	Lys	Tyr	Pro	Gly	Thr
				440					445					450
Tyr	Lys	Arg	His	Pro	Val	Arg	Pro	Ile	Ile	His	Pro	Asn	Ala	Met
				455					460					465
Glu	Lys	Leu	Met	Lys	Arg	Lys	Gly	Val	Pro	His	Lys	Ser	Gly	Met



Gln Thr Lys Arg	470	Pro Asp Leu Leu Arg	475	Ser Glu Gly Ile Pro Thr	480
Thr Glu Val Ala	485	Pro Thr Ala Ser Pro	490	Leu Ser Gly Ser Pro Lys	495
Met Ser Thr Ser	500	Ser Ser Lys Ser Arg	505	Tyr Arg Ser Lys Pro Arg	510
His Arg Arg Gly	515	Asn Ser Arg Gly Ser	520	His Ser Asp Phe Ala Ala	525
Ile Leu Lys Asn	530	Gln Pro Ala Gln Glu	535	Asn Ser Pro His Pro Thr	540
Tyr Leu His Gln	545	Ala Gln Ser Gln Tyr	550	Pro Ser Leu His His His	555
Asn Ser Leu Gln	560	Gln Gln Tyr Gln Gln	565	Pro Pro Pro Ala Met Ser	570
Gln Ser His His	575	Pro Arg Leu Asn Met	580	His Gly Gln Asp Ile Ala	585
Thr Cys Ala Asn	590	Asn Leu Arg Tyr Phe	595	Gly Pro Ala Ala Ala Leu	600
Arg Ser Pro Leu	605	Ser Asn His Ala Gln	610	Arg Gln Leu Pro Gly Ser	615
Ser Pro Asp Leu	620	Ile Ser Thr Ala Met	625	Ala Ala Asp Cys Trp Arg	630
Ser Ser Glu Pro	635	Asp Lys Gly Gln Ala	640	Gly Pro Trp Gly Cys Cys	645
Gln Ala Asp Ala	650	Tyr Asp Pro Cys Leu	655	Gln Cys Arg Pro Glu Gln	660
Tyr Gly Ser Leu	665	Asp Ile Pro Ser Ala	670	Glu Pro Val Gly Arg Ser	675
Pro Asp Leu Ser	680	Lys Ser Pro Ala His	685	Asn Pro Leu Leu Glu Asn	690
Ala Gln Ser Ser	695	Glu Lys Thr Glu Glu	700	Asn Glu Phe Ser Gly Cys	705
Arg Ser Glu Ser	710	Ser Leu Gly Thr Ser	715	His Leu Gly Thr Pro Pro	720
Ala Leu Pro Arg	725	Lys Thr Arg Pro Leu	730	Gln Lys Ser Gly Asp Asp	735
Ser Ser Glu Glu	740	Glu Glu Gly Glu Val	745	Asp Ser Glu Val Glu Phe	750
Pro Arg Arg Gln	755	Arg Pro His Arg Cys	760	Ile Ser Ser Cys Gln Ser	765
Tyr Ser Thr Phe	770	Ser Ser Glu Asn Phe	775	Ser Val Ser Asp Gly Glu	780
Glu Gly Asn Thr	785	Ser Asp His Ser Asn	790	Ser Pro Asp Glu Leu Ala	795
Asp Lys Leu Glu	800	Asp Arg Leu Ala Glu	805	Lys Leu Asp Asp Leu Leu	810
Ser Gln Thr Pro	815	Glu Ile Pro Ile Asp	820	Ile Ser Ser His Ser Asp	825
Gly Leu Ser Asp	830	Lys Glu Cys Ala Val	835	Arg Arg Val Lys Thr Gln	840
Met Ser Leu Gly	845	Lys Leu Cys Val Glu	850	Arg Arg Gly Tyr Glu Asn	855
Pro Met Gln Phe	860	Glu Glu Ser Asp Cys	865	Asp Ser Ser Asp Gly Glu	870
Cys Ser Asp Ala	875	Thr Val Arg Thr Asn	880	Lys His Tyr Ser Ser Ala	885
Thr Trp	890		895		900

<210> 27  
 <211> 458  
 <212> PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 7523625CD1

&lt;400&gt; 27

Met	Lys	Asp	Tyr	Asp	Glu	Leu	Leu	Lys	Tyr	Tyr	Glu	Leu	His	Glu
1				5					10					15
Thr	Ile	Gly	Thr	Gly	Gly	Phe	Ala	Lys	Val	Lys	Leu	Ala	Cys	His
				20					25					30
Ile	Leu	Thr	Gly	Glu	Met	Val	Ala	Ile	Lys	Ile	Met	Asp	Lys	Asn
				35					40					45
Thr	Leu	Gly	Ser	Asp	Leu	Pro	Arg	Ile	Lys	Thr	Glu	Ile	Glu	Ala
				50					55					60
Leu	Lys	Asn	Leu	Arg	His	Gln	His	Ile	Cys	Gln	Leu	Tyr	His	Val
				65					70					75
Leu	Glu	Thr	Ala	Asn	Lys	Ile	Phe	Met	Val	Leu	Glu	Glu	Asn	Leu
				80					85					90
Leu	Phe	Asp	Glu	Tyr	His	Lys	Leu	Lys	Leu	Ile	Asp	Phe	Gly	Leu
				95					100					105
Cys	Ala	Lys	Pro	Lys	Gly	Asn	Lys	Asp	Tyr	His	Leu	Gln	Thr	Cys
				110					115					120
Cys	Gly	Ser	Leu	Ala	Tyr	Ala	Ala	Pro	Glu	Leu	Ile	Gln	Gly	Lys
				125					130					135
Ser	Tyr	Leu	Gly	Ser	Glu	Ala	Asp	Val	Trp	Ser	Met	Gly	Ile	Leu
				140					145					150
Leu	Tyr	Val	Leu	Met	Cys	Gly	Phe	Leu	Pro	Phe	Asp	Asp	Asp	Asn
				155					160					165
Val	Met	Ala	Leu	Tyr	Lys	Lys	Ile	Met	Arg	Gly	Lys	Tyr	Asp	Val
				170					175					180
Pro	Lys	Trp	Leu	Ser	Pro	Ser	Ser	Ile	Leu	Leu	Leu	Gln	Gln	Met
				185					190					195
Leu	Gln	Val	Asp	Pro	Lys	Lys	Arg	Ile	Ser	Met	Lys	Asn	Leu	Leu
				200					205					210
Asn	His	Pro	Trp	Ile	Met	Gln	Asp	Tyr	Asn	Tyr	Pro	Val	Glu	Trp
				215					220					225
Gln	Ser	Lys	Asn	Pro	Phe	Ile	His	Leu	Asp	Asp	Asp	Cys	Val	Thr
				230					235					240
Glu	Leu	Ser	Val	His	His	Arg	Asn	Asn	Arg	Gln	Thr	Met	Glu	Asp
				245					250					255
Leu	Ile	Ser	Leu	Trp	Gln	Tyr	Asp	His	Leu	Thr	Ala	Thr	Tyr	Leu
				260					265					270
Leu	Leu	Leu	Ala	Lys	Lys	Ala	Arg	Gly	Lys	Pro	Val	Arg	Leu	Arg
				275					280					285
Leu	Ser	Ser	Phe	Ser	Cys	Gly	Gln	Ala	Ser	Ala	Thr	Pro	Phe	Thr
				290					295					300
Asp	Ile	Lys	Ser	Asn	Asn	Trp	Ser	Leu	Glu	Asp	Val	Thr	Ala	Ser
				305					310					315
Asp	Lys	Asn	Tyr	Val	Ala	Gly	Leu	Ile	Asp	Tyr	Asp	Trp	Cys	Glu
				320					325					330
Asp	Asp	Leu	Ser	Thr	Gly	Ala	Ala	Thr	Pro	Arg	Thr	Ser	Gln	Phe
				335					340					345
Thr	Lys	Tyr	Trp	Thr	Glu	Ser	Asn	Gly	Val	Glu	Ser	Lys	Ser	Leu
				350					355					360
Thr	Pro	Ala	Leu	Cys	Arg	Thr	Pro	Ala	Asn	Lys	Leu	Lys	Asn	Lys
				365					370					375
Glu	Asn	Val	Tyr	Thr	Pro	Lys	Ser	Ala	Val	Lys	Asn	Glu	Glu	Tyr
				380					385					390
Phe	Met	Phe	Pro	Glu	Pro	Lys	Thr	Pro	Val	Asn	Lys	Asn	Gln	His
				395					400					405
Lys	Arg	Glu	Ile	Leu	Thr	Thr	Pro	Asn	Arg	Tyr	Thr	Thr	Pro	Ser
				410					415					420

Lys Ala Arg Asn Gln Cys Leu Lys Glu Thr Pro Ile Lys Ile Pro  
 425 430 435  
 Val Asn Ser Thr Gly Thr Asp Lys Leu Met Thr Gly Val Ile Ser  
 440 445 450  
 Pro Glu Arg Arg Phe Thr Ile Met  
 455

<210> 28  
 <211> 597  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 7523650CD1

<400> 28  
 Met Gln Ser Thr Ala Asn Tyr Leu Trp His Thr Asp Asp Leu Leu  
 1 5 10 15  
 Gly Gln Gly Ala Thr Ala Ser Val Tyr Lys Ala Arg Asn Lys Lys  
 20 25 30  
 Ser Gly Glu Leu Val Ala Val Lys Val Phe Asn Thr Thr Ser Tyr  
 35 40 45  
 Leu Arg Pro Arg Glu Val Gln Val Arg Glu Phe Glu Val Leu Arg  
 50 55 60  
 Lys Leu Asn His Gln Asn Ile Val Lys Leu Phe Ala Val Glu Glu  
 65 70 75  
 Thr Gly Gly Ser Arg Gln Lys Val Leu Val Met Glu Tyr Cys Ser  
 80 85 90  
 Ser Gly Ser Leu Leu Ser Val Leu Glu Ser Pro Glu Asn Ala Phe  
 95 100 105  
 Gly Leu Pro Glu Asp Glu Phe Leu Val Val Leu Arg Cys Val Val  
 110 115 120  
 Ala Gly Met Asn His Leu Arg Glu Asn Gly Ile Val His Arg Asp  
 125 130 135  
 Ile Lys Pro Gly Asn Ile Met Arg Leu Val Gly Glu Glu Gly Gln  
 140 145 150  
 Ser Ile Tyr Lys Leu Thr Asp Phe Gly Ala Ala Arg Glu Leu Asp  
 155 160 165  
 Asp Asp Glu Lys Phe Val Ser Val Tyr Gly Thr Glu Glu Tyr Leu  
 170 175 180  
 His Pro Asp Met Tyr Glu Arg Ala Val Leu Arg Lys Pro Gln Gln  
 185 190 195  
 Lys Ala Phe Gly Val Thr Val Asp Leu Trp Ser Ile Gly Val Thr  
 200 205 210  
 Leu Tyr Arg Ala Ala Thr Gly Ser Leu Pro Phe Ile Pro Phe Gly  
 215 220 225  
 Gly Pro Arg Arg Asn Lys Glu Ile Met Tyr Arg Ile Thr Thr Glu  
 230 235 240  
 Lys Pro Ala Gly Ala Ile Ala Gly Ala Gln Arg Arg Glu Asn Gly  
 245 250 255  
 Pro Leu Glu Trp Ser Tyr Thr Leu Pro Ile Thr Cys Gln Leu Ser  
 260 265 270  
 Leu Ile Ala Ile Phe Gln Glu Ala Val His Lys Gln Thr Ser Val  
 275 280 285  
 Ala Pro Arg His Gln Glu Tyr Leu Phe Glu Gly His Leu Cys Val  
 290 295 300  
 Leu Glu Pro Ser Val Ser Ala Gln His Ile Ala His Thr Thr Ala  
 305 310 315  
 Ser Ser Pro Leu Thr Leu Phe Ser Thr Ala Ile Pro Lys Gly Leu  
 320 325 330  
 Ala Phe Arg Asp Pro Ala Leu Asp Val Pro Lys Phe Val Pro Lys  
 335 340 345

Val	Asp	Leu	Gln	Ala	Asp	Tyr	Asn	Thr	Ala	Lys	Gly	Val	Leu	Gly
				350					355					360
Ala	Gly	Tyr	Gln	Ala	Leu	Arg	Leu	Ala	Arg	Ala	Leu	Leu	Asp	Gly
				365					370					375
Gln	Glu	Leu	Met	Phe	Arg	Gly	Leu	His	Trp	Val	Met	Glu	Val	Leu
				380					385					390
Gln	Ala	Thr	Cys	Arg	Arg	Thr	Leu	Glu	Val	Ala	Arg	Thr	Thr	Leu
				395					400					405
Leu	Tyr	Leu	Ser	Ser	Ser	Leu	Gly	Thr	Glu	Arg	Phe	Ser	Ser	Val
				410					415					420
Ala	Gly	Thr	Pro	Glu	Ile	Gln	Glu	Leu	Lys	Ala	Ala	Ala	Glu	Leu
				425					430					435
Arg	Ser	Arg	Leu	Arg	Thr	Leu	Ala	Glu	Val	Leu	Ser	Arg	Cys	Ser
				440					445					450
Gln	Asn	Ile	Thr	Glu	Thr	Gln	Glu	Ser	Leu	Ser	Ser	Leu	Asn	Arg
				455					460					465
Glu	Leu	Val	Lys	Ser	Arg	Asp	Gln	Val	His	Glu	Asp	Arg	Ser	Ile
				470					475					480
Gln	Gln	Ile	Gln	Cys	Cys	Leu	Asp	Lys	Met	Asn	Phe	Ile	Tyr	Lys
				485					490					495
Gln	Phe	Lys	Lys	Ser	Arg	Met	Arg	Pro	Gly	Leu	Gly	Tyr	Asn	Glu
				500					505					510
Glu	Gln	Ile	His	Lys	Leu	Asp	Lys	Val	Asn	Phe	Ser	Gln	Leu	Ala
				515					520					525
Lys	Arg	Leu	Leu	Gln	Val	Phe	Gln	Glu	Glu	Cys	Val	Gln	Lys	Tyr
				530					535					540
Gln	Ala	Ser	Leu	Val	Thr	His	Gly	Lys	Arg	Met	Arg	Val	Val	His
				545					550					555
Glu	Thr	Arg	Asn	His	Leu	Arg	Leu	Val	Gly	Cys	Ser	Val	Ala	Ala
				560					565					570
Cys	Asn	Thr	Glu	Ala	Gln	Gly	Val	Gln	Glu	Ser	Leu	Ser	Lys	His
				575					580					585
Ala	Arg	Ala	Leu	Arg	Gly	Asp	Glu	Ala	Ala	Gly	Ile			
				590					595					

&lt;210&gt; 29

&lt;211&gt; 330

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 7523665CD1

&lt;400&gt; 29

Met	Asn	Ser	Ser	Pro	Ala	Gly	Thr	Pro	Ser	Pro	Gln	Pro	Ser	Arg
1				5					10					15
Ala	Asn	Gly	Asn	Ile	Asn	Leu	Gly	Pro	Ser	Ala	Asn	Pro	Asn	Ala
				20					25					30
Gln	Pro	Thr	Asp	Phe	Asp	Phe	Leu	Lys	Val	Ile	Gly	Lys	Gly	Asn
				35					40					45
Tyr	Gly	Lys	Val	Leu	Leu	Ala	Lys	Arg	Lys	Pro	Asp	Gly	Ala	Phe
				50					55					60
Tyr	Ala	Val	Lys	Val	Leu	Gln	Lys	Lys	Ser	Ile	Leu	Lys	Lys	Lys
				65					70					75
Glu	Gln	Ser	His	Ile	Met	Ala	Glu	Arg	Ser	Val	Leu	Leu	Lys	Asn
				80					85					90
Val	Arg	Arg	Pro	Phe	Leu	Val	Gly	Leu	Arg	Tyr	Ser	Phe	Gln	Thr
				95					100					105
Pro	Glu	Lys	Leu	Tyr	Phe	Val	Leu	Asp	Tyr	Val	Asn	Gly	Gly	Glu
				110					115					120
Leu	Phe	Phe	His	Leu	Gln	Arg	Glu	Arg	Arg	Phe	Leu	Glu	Pro	Arg
				125					130					135

Ala	Arg	Phe	Tyr	Ala	Ala	Glu	Val	Ala	Ser	Ala	Ile	Gly	Tyr	Leu	
				140					145					150	
His	Ser	Leu	Asn	Ile	Ile	Tyr	Arg	Asp	Leu	Lys	Pro	Glu	Asn	Ile	
				155					160					165	
Leu	Leu	Asp	Cys	Gln	Gly	His	Val	Val	Leu	Thr	Asp	Phe	Gly	Leu	
				170					175					180	
Cys	Lys	Glu	Gly	Val	Glu	Pro	Glu	Asp	Thr	Thr	Ser	Thr	Phe	Cys	
				185					190					195	
Gly	Thr	Pro	Glu	Tyr	Leu	Ala	Pro	Glu	Val	Leu	Arg	Lys	Glu	Pro	
				200					205					210	
Tyr	Asp	Arg	Ala	Val	Asp	Trp	Trp	Cys	Leu	Gly	Ala	Val	Leu	Tyr	
				215					220					225	
Glu	Met	Leu	His	Gly	Leu	Pro	Pro	Phe	Tyr	Ser	Gln	Asp	Val	Ser	
				230					235					240	
Gln	Met	Tyr	Glu	Asn	Ile	Leu	His	Gln	Pro	Leu	Gln	Ile	Pro	Gly	
				245					250					255	
Gly	Arg	Thr	Val	Ala	Ala	Cys	Asp	Leu	Leu	Gln	Ser	Leu	Leu	His	
				260					265					270	
Lys	Asp	Gln	Arg	Gln	Arg	Leu	Gly	Ser	Lys	Ala	Asp	Phe	Leu	Glu	
				275					280					285	
Ile	Lys	Asn	His	Val	Phe	Phe	Ser	Pro	Ile	Asn	Trp	Asp	Asp	Leu	
				290					295					300	
Tyr	His	Lys	Arg	Leu	Thr	Pro	Pro	Phe	Asn	Pro	Asn	Val	Ile	Gly	
				305					310					315	
Tyr	Thr	Arg	Ala	Arg	His	Gln	Lys	Ser	Phe	Phe	Ser	Leu	Gly	Phe	
				320					325					330	

&lt;210&gt; 30

&lt;211&gt; 335

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 7523672CD1

&lt;400&gt; 30

Met	Asp	Arg	Met	Lys	Lys	Ile	Lys	Arg	Gln	Leu	Ser	Met	Thr	Leu	
1				5					10					15	
Arg	Gly	Gly	Arg	Gly	Ile	Asp	Lys	Thr	Asn	Gly	Ala	Pro	Glu	Gln	
				20					25					30	
Ile	Gly	Leu	Asp	Glu	Ser	Gly	Gly	Gly	Gly	Gly	Ser	Asp	Pro	Gly	
				35					40					45	
Glu	Ala	Pro	Thr	Arg	Ala	Ala	Pro	Gly	Glu	Leu	Arg	Ser	Ala	Arg	
				50					55					60	
Gly	Pro	Leu	Ser	Ser	Ala	Pro	Glu	Ile	Val	His	Glu	Asp	Leu	Lys	
				65					70					75	
Met	Gly	Ser	Asp	Gly	Glu	Ser	Asp	Gln	Ala	Ser	Ala	Thr	Ser	Ser	
				80					85					90	
Asp	Glu	Val	Gln	Ser	Pro	Val	Arg	Val	Arg	Met	Arg	Asn	His	Pro	
				95					100					105	
Pro	Arg	Lys	Ile	Ser	Thr	Glu	Asp	Ile	Asn	Lys	Arg	Leu	Ser	Leu	
				110					115					120	
Pro	Ala	Asp	Ile	Arg	Leu	Pro	Glu	Gly	Tyr	Leu	Glu	Lys	Leu	Thr	
				125					130					135	
Leu	Asn	Ser	Pro	Ile	Phe	Asp	Lys	Pro	Leu	Ser	Arg	Arg	Leu	Arg	
				140					145					150	
Arg	Val	Ser	Leu	Ser	Glu	Ile	Gly	Phe	Gly	Lys	Leu	Glu	Thr	Tyr	
				155					160					165	
Ile	Lys	Leu	Asp	Lys	Leu	Gly	Glu	Gly	Thr	Tyr	Ala	Thr	Val	Tyr	
				170					175					180	
Lys	Gly	Lys	Ser	Lys	Leu	Thr	Asp	Asn	Leu	Val	Ala	Leu	Lys	Glu	

Ile Arg Leu Glu	185	Glu Glu Gly Ala	190	Pro Cys Thr Ala	195
Glu Val Ser Leu	200	Lys Asp Leu Lys	205	His Ala Asn Ile	210
Leu His Asp Ile	215	Ile His Thr Glu	220	Lys Ser Leu Thr	225
Glu Tyr Leu Asp	230	Lys Asp Leu Lys	235	Gln Tyr Leu Asp	240
Asn Ile Ile Asn	245	Met His Asn Val	250	Lys Val Gly Val	255
Ala Gly Ala Gln	260	Gly Gly Pro His	265	Ser Pro Thr Pro	270
Ser Pro Arg Asn	275	Gly Leu Phe Pro	280	Leu Ala Phe Phe	285
Pro Trp Arg Ala	290	Leu Gly Pro Cys	295	Pro Leu Leu Cys	300
Leu Gly Leu Val	305	Ser Val Phe Gly	310	Arg Gly Ala Val	315
Gly Arg Ala Ser	320	Gly Gly	325	Pro Ala Gly	330
	335				

<210> 31  
 <211> 122  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 7523687CD1

Met Asp Val Val	1	Asp Pro Asp Ile	5	Phe Asn Arg Asp	10
His Tyr Asp Leu	15	Leu Gln Arg Leu	20	Gly Gly Thr Tyr	25
Val Phe Lys Ala	30	Arg Asp Lys Val	35	Ser Gly Asp Leu	40
Lys Met Val Lys	45	Met Glu Pro Asp	50	Asp Asp Val Ser	55
Lys Glu Ile Leu	60	Ile Leu Lys Thr	65	Cys Arg His Ala	70
Ala Tyr His Gly	75	Ser Tyr Leu Trp	80	Leu Gln Lys Leu	85
Met Glu Phe Cys	90	Gly Ala Gly Ser	95	Leu Gln Asp Ile	100
Thr Gly Leu Phe	105	Ala Leu Thr Glu	110	Glu Asp Thr Gln	115
Gly Ser	120				

<210> 32  
 <211> 532  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 7523689CD1

Met Asp Glu Gln	1	Glu Ala Leu Asn	5	Ser Ile Met Asn	10
	15	Asp Leu Val			

Ala	Leu	Gln	Met	Asn	Arg	Arg	His	Arg	Met	Pro	Gly	Tyr	Glu	Thr
				20					25					30
Met	Lys	Asn	Lys	Asp	Thr	Gly	His	Ser	Asn	Arg	Gln	Lys	Lys	His
				35					40					45
Asn	Ser	Ser	Ser	Ser	Ala	Leu	Leu	Asn	Ser	Pro	Thr	Val	Thr	Thr
				50					55					60
Ser	Ser	Cys	Ala	Gly	Ala	Ser	Glu	Lys	Lys	Lys	Phe	Leu	Ser	Asp
				65					70					75
Val	Arg	Ile	Lys	Phe	Glu	His	Asn	Gly	Glu	Arg	Arg	Ile	Ile	Ala
				80					85					90
Phe	Ser	Arg	Pro	Val	Lys	Tyr	Glu	Asp	Val	Glu	His	Lys	Val	Thr
				95					100					105
Thr	Val	Phe	Gly	Gln	Pro	Leu	Asp	Leu	His	Tyr	Met	Asn	Asn	Glu
				110					115					120
Leu	Ser	Ile	Leu	Leu	Lys	Asn	Gln	Asp	Asp	Leu	Asp	Lys	Ala	Ile
				125					130					135
Asp	Ile	Leu	Asp	Arg	Ser	Ser	Ser	Met	Lys	Ser	Leu	Arg	Ile	Leu
				140					145					150
Leu	Leu	Ser	Gln	Asp	Arg	Asn	His	Asn	Ser	Ser	Ser	Pro	His	Ser
				155					160					165
Gly	Val	Ser	Arg	Gln	Val	Arg	Ile	Lys	Ala	Ser	Gln	Ser	Ala	Gly
				170					175					180
Asp	Ile	Asn	Thr	Ile	Tyr	Gln	Pro	Pro	Glu	Pro	Arg	Ser	Arg	His
				185					190					195
Leu	Ser	Val	Ser	Ser	Gln	Asn	Pro	Gly	Arg	Ser	Ser	Pro	Pro	Pro
				200					205					210
Gly	Tyr	Val	Pro	Glu	Arg	Gln	Gln	His	Ile	Ala	Arg	Gln	Gly	Ser
				215					220					225
Tyr	Thr	Ser	Ile	Asn	Ser	Glu	Gly	Glu	Phe	Ile	Pro	Glu	Thr	Ser
				230					235					240
Glu	Gln	Cys	Met	Leu	Asp	Pro	Leu	Ser	Ser	Ala	Glu	Asn	Ser	Leu
				245					250					255
Ser	Gly	Ser	Cys	Gln	Ser	Leu	Asp	Arg	Ser	Ala	Asp	Ser	Pro	Ser
				260					265					270
Phe	Arg	Lys	Ser	Arg	Met	Ser	Arg	Ala	Gln	Ser	Phe	Pro	Asp	Asn
				275					280					285
Arg	Gln	Glu	Tyr	Ser	Asp	Arg	Glu	Thr	Gln	Leu	Tyr	Asp	Lys	Gly
				290					295					300
Val	Lys	Gly	Gly	Thr	Tyr	Pro	Arg	Arg	Tyr	His	Val	Ser	Val	His
				305					310					315
His	Lys	Asp	Tyr	Ser	Asp	Gly	Arg	Arg	Thr	Phe	Pro	Arg	Ile	Arg
				320					325					330
Arg	His	Gln	Gly	Asn	Leu	Phe	Thr	Leu	Val	Pro	Ser	Ser	Arg	Ser
				335					340					345
Leu	Ser	Thr	Asn	Gly	Glu	Asn	Met	Gly	Leu	Ala	Val	Gln	Tyr	Leu
				350					355					360
Asp	Pro	Arg	Gly	Arg	Leu	Arg	Ser	Ala	Asp	Ser	Glu	Asn	Ala	Leu
				365					370					375
Ser	Val	Gln	Glu	Arg	Asn	Val	Pro	Thr	Lys	Ser	Pro	Ser	Ala	Pro
				380					385					390
Ile	Asn	Trp	Arg	Arg	Gly	Lys	Leu	Leu	Gly	Gln	Gly	Ala	Phe	Gly
				395					400					405
Arg	Val	Tyr	Leu	Cys	Tyr	Asp	Val	Asp	Thr	Gly	Arg	Glu	Leu	Ala
				410					415					420
Ser	Lys	Gln	Val	Gln	Phe	Asp	Pro	Asp	Ser	Pro	Glu	Thr	Ser	Lys
				425					430					435
Glu	Val	Ser	Ala	Leu	Glu	Cys	Glu	Ile	Gln	Leu	Leu	Lys	Asn	Leu
				440					445					450
Gln	His	Glu	Arg	Ile	Val	Gln	Tyr	Tyr	Gly	Cys	Leu	Arg	Asp	Arg
				455					460					465
Ala	Glu	Lys	Thr	Leu	Thr	Ile	Phe	Met	Glu	Tyr	Met	Pro	Gly	Gly
				470					475					480
Ser	Val	Lys	Asp	Gln	Leu	Lys	Ala	Tyr	Gly	Ala	Leu	Thr	Glu	Ser

	485		490		495
Val Thr Arg Lys Tyr	Thr Arg Gln Ile	Leu Glu Gly Met Ser	Tyr		
	500		505		510
Leu His Ser Asn Met	Ile Val His Arg	Asp Ile Lys Gly Ala	Trp		
	515		520		525
Ala Ala Leu Trp Trp	Arg Cys				
	530				

<210> 33  
 <211> 410  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 7523705CD1

<400> 33

Met Gly Cys Val Phe	Cys Lys Lys Leu Glu	Pro Val Ala Thr Ala	
1	5	10	15
Lys Glu Asp Ala Gly	Leu Glu Gly Asp Phe	Arg Ser Tyr Gly Ala	
	20	25	30
Ala Asp His Tyr Gly	Pro Asp Pro Thr Lys	Ala Arg Pro Ala Ser	
	35	40	45
Ser Phe Ala His Ile	Pro Asn Tyr Ser Asn	Phe Ser Ser Gln Ala	
	50	55	60
Ile Asn Pro Gly Phe	Leu Asp Ser Gly Thr	Ile Arg Gly Val Ser	
	65	70	75
Gly Ile Gly Val Thr	Leu Phe Ile Ala Leu	Tyr Asp Tyr Glu Ala	
	80	85	90
Arg Thr Glu Asp Asp	Leu Thr Phe Thr Lys	Gly Glu Lys Phe His	
	95	100	105
Ile Leu Asn Asn Thr	Glu Gly Asp Trp Trp	Glu Ala Arg Ser Leu	
	110	115	120
Ser Ser Gly Lys Thr	Gly Cys Ile Pro Ser	Asn Tyr Val Ala Pro	
	125	130	135
Val Asp Ser Ile Gln	Ala Glu Glu Trp Tyr	Phe Gly Lys Ile Gly	
	140	145	150
Arg Lys Asp Ala Glu	Arg Gln Leu Leu Ser	Pro Gly Asn Pro Gln	
	155	160	165
Gly Ala Phe Leu Ile	Arg Glu Ser Glu Thr	Lys Gly Ala Tyr	
	170	175	180
Ser Leu Ser Ile Arg	Asp Trp Asp Gln Thr	Arg Gly Asp His Val	
	185	190	195
Lys His Tyr Lys Ile	Arg Lys Leu Asp Met	Gly Gly Tyr Tyr Ile	
	200	205	210
Thr Thr Arg Val Gln	Phe Asn Ser Val Gln	Glu Leu Val Gln His	
	215	220	225
Tyr Met Glu Val Asn	Asp Gly Leu Cys Asn	Leu Leu Ile Ala Pro	
	230	235	240
Cys Ala Ile Met Lys	Pro Gln Thr Leu Gly	Leu Ala Lys Asp Ala	
	245	250	255
Trp Glu Ile Ser Arg	Ser Ser Ile Thr Leu	Glu Arg Arg Leu Gly	
	260	265	270
Thr Gly Cys Phe Gly	Asp Val Trp Leu Gly	Thr Trp Asn Gly Ser	
	275	280	285
Thr Lys Val Ala Val	Lys Thr Leu Lys Pro	Gly Thr Met Ser Pro	
	290	295	300
Lys Ala Phe Leu Glu	Glu Ala Gln Val Met	Lys Leu Leu Arg His	
	305	310	315
Asp Lys Leu Val Gln	Leu Tyr Ala Val Val	Ser Glu Glu Pro Ile	
	320	325	330
Tyr Ile Val Thr Glu	Phe Met Cys His Gly	Ser Leu Leu Asp Phe	



	335		340		345
Leu Lys Asn Pro	Glu Gly Gln Asp Leu	Arg Leu Pro Gln Leu	Val		
	350		355		360
Asp Met Ala Ala	Gln Val Pro Ser Ser	Pro Ser Ser Gly Gln	Pro		
	365		370		375
Gln Lys Leu Pro	Ser Leu Ala Asp Ser	Pro Ser Ser Gln Thr	Cys		
	380		385		390
Gly Pro Leu Gly	Ser Cys Ser Leu Ser	Ser Ser Pro Arg Ala	Glu		
	395		400		405
Ser Pro Thr Gln	Ala				
	410				

<210> 34  
 <211> 436  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 7523706CD1

<400> 34

Met Gly Cys Met Lys Ser Lys Phe Leu Gln Val Gly Gly Asn Thr		
1 5 10 15		
Phe Ser Lys Thr Glu Thr Ser Ala Ser Pro His Cys Pro Val Tyr		
20 25 30		
Val Pro Asp Pro Thr Ser Thr Ile Lys Pro Gly Pro Asn Ser His		
35 40 45		
Asn Ser Asn Thr Pro Gly Ile Arg Glu Asp Pro Gly Ser Gly Gly		
50 55 60		
Arg Leu Asp Pro Trp Pro Pro Gly Arg Arg Ala Thr Ser Gln Ala		
65 70 75		
Thr Met Ser Pro Ala Leu Thr Leu Trp Arg Gln Arg Arg Ser Tyr		
80 85 90		
Ser Leu Ser Val Arg Asp Tyr Asp Pro Arg Gln Gly Asp Thr Val		
95 100 105		
Lys His Tyr Lys Ile Arg Thr Leu Asp Asn Gly Gly Phe Tyr Ile		
110 115 120		
Ser Pro Arg Ser Thr Phe Ser Thr Leu Gln Glu Leu Val Asp His		
125 130 135		
Tyr Lys Lys Gly Asn Asp Gly Leu Cys Gln Lys Leu Ser Val Pro		
140 145 150		
Cys Met Ser Ser Lys Pro Gln Lys Pro Trp Glu Lys Asp Ala Trp		
155 160 165		
Glu Ile Pro Arg Glu Ser Leu Lys Leu Glu Lys Lys Phe Gly Ala		
170 175 180		
Gly Gln Phe Gly Glu Val Trp Met Ala Thr Tyr Asn Lys His Thr		
185 190 195		
Lys Val Ala Val Lys Thr Met Lys Pro Gly Ser Met Ser Val Glu		
200 205 210		
Ala Phe Leu Ala Glu Ala Asn Val Met Lys Thr Leu Gln His Asp		
215 220 225		
Lys Leu Val Lys Leu His Ala Val Val Thr Lys Glu Pro Ile Tyr		
230 235 240		
Ile Ile Thr Glu Phe Met Ala Lys Gly Ser Leu Leu Asp Phe Leu		
245 250 255		
Lys Ser Asp Glu Gly Ser Lys Gln Pro Leu Pro Lys Leu Ile Asp		
260 265 270		
Phe Ser Ala Gln Ile Ala Glu Gly Met Ala Phe Ile Glu Gln Arg		
275 280 285		
Asn Tyr Ile His Arg Asp Leu Arg Ala Ala Asn Ile Leu Val Ser		
290 295 300		
Ala Ser Leu Val Cys Lys Ile Ala Asp Phe Gly Leu Ala Arg Val		

	305		310		315
Ile Glu Asp Asn	Glu Tyr Thr Ala Arg	Glu Gly Ala Lys Phe	Pro		
	320		325		330
Ile Lys Trp Thr	Ala Pro Glu Ala Ile	Asn Phe Gly Ser Phe	Thr		
	335		340		345
Ile Lys Ser Asp	Val Trp Ser Phe Gly	Ile Leu Leu Met Glu	Ile		
	350		355		360
Val Thr Tyr Gly	Arg Ile Pro Tyr Pro	Gly Met Ser Asn Pro	Glu		
	365		370		375
Val Ile Arg Ala	Leu Glu Arg Gly Tyr	Arg Met Pro Arg Pro	Glu		
	380		385		390
Asn Cys Pro Glu	Glu Leu Tyr Asn Ile	Met Met Arg Cys Trp	Lys		
	395		400		405
Asn Arg Pro Glu	Glu Arg Pro Thr Phe	Glu Tyr Ile Gln Ser	Val		
	410		415		420
Leu Asp Asp Phe	Tyr Thr Ala Thr Glu	Ser Gln Tyr Gln Gln	Gln		
	425		430		435
Pro					

&lt;210&gt; 35

&lt;211&gt; 643

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 7523707CD1

&lt;400&gt; 35

Met Ser Pro Phe	Leu Arg Ile Gly	Leu Ser Asn Phe Asp	Cys Gly
1	5	10	15
Ser Cys Gln Ser	Cys Gln Gly Glu	Ala Val Asn Pro Tyr	Cys Ala
	20	25	30
Val Leu Val Lys	Glu Tyr Val Glu	Ser Glu Asn Gly	Gln Met Tyr
	35	40	45
Ile Gln Lys Lys	Pro Thr Met Tyr	Pro Pro Trp Asp	Ser Thr Phe
	50	55	60
Asp Ala His Ile	Asn Lys Gly Arg	Val Met Gln Ile	Ile Val Lys
	65	70	75
Gly Lys Asn Val	Asp Leu Ile Ser	Glu Thr Thr Val	Glu Leu Tyr
	80	85	90
Ser Leu Ala Glu	Arg Cys Arg Lys	Asn Asn Gly Lys	Thr Glu Ile
	95	100	105
Trp Leu Glu Leu	Lys Pro Gln Gly	Arg Met Leu Met	Asn Ala Arg
	110	115	120
Tyr Phe Leu Glu	Met Ser Asp Thr	Lys Asp Met Asn	Glu Phe Glu
	125	130	135
Thr Glu Gly Phe	Phe Ala Leu His	Gln Arg Arg Gly	Ala Ile Lys
	140	145	150
Gln Ala Lys Val	His His Val Lys	Cys His Glu Phe	Thr Ala Thr
	155	160	165
Phe Phe Pro Gln	Pro Thr Phe Cys	Phe Val Cys His	Glu Phe Val
	170	175	180
Trp Gly Leu Asn	Lys Gln Gly Tyr	Gln Cys Arg Gln	Cys Asn Ala
	185	190	195
Ala Ile His Lys	Lys Cys Ile Asp	Lys Val Ile Ala	Lys Cys Thr
	200	205	210
Gly Ser Ala Ile	Asn Ser Arg Glu	Thr Met Phe His	Lys Glu Arg
	215	220	225
Phe Lys Ile Asp	Met Pro His Arg	Phe Lys Val Tyr	Asn Tyr Lys
	230	235	240
Ser Pro Thr Phe	Cys Glu His Cys	Gly Thr Leu Leu	Trp Gly Leu

	245		250		255
Ala Arg Gln Gly	Leu Lys Cys Asp Ala	Cys Gly Met Asn Val	His		
	260		265		270
His Arg Cys Gln	Thr Lys Val Ala Asn	Leu Cys Gly Ile Asn	Gln		
	275		280		285
Lys Leu Met Ala	Glu Ala Leu Ala Met	Ile Glu Ser Thr Gln	Gln		
	290		295		300
Ala Arg Cys Leu	Arg Asp Thr Glu Gln	Ile Phe Arg Glu Gly	Pro		
	305		310		315
Val Glu Ile Gly	Leu Pro Cys Ser Ile	Lys Asn Glu Ala Arg	Leu		
	320		325		330
Pro Cys Leu Pro	Thr Pro Gly Lys Arg	Glu Pro Gln Gly Ile	Ser		
	335		340		345
Trp Glu Ser Pro	Leu Asp Glu Val Asp	Lys Met Cys His Leu	Pro		
	350		355		360
Glu Pro Glu Leu	Asn Lys Glu Arg Pro	Ser Leu Gln Ile Lys	Leu		
	365		370		375
Lys Ile Glu Asp	Phe Ile Leu His Lys	Met Leu Gly Lys Gly	Ser		
	380		385		390
Phe Gly Lys Val	Phe Leu Ala Glu Phe	Lys Lys Thr Asn Gln	Phe		
	395		400		405
Phe Ala Ile Lys	Ala Leu Lys Lys Asp	Val Val Leu Met Asp	Asp		
	410		415		420
Asp Val Glu Cys	Thr Met Val Glu Lys	Arg Val Leu Ser Leu	Ala		
	425		430		435
Trp Glu His Pro	Phe Leu Thr His Met	Phe Cys Thr Phe Gln	Thr		
	440		445		450
Lys Glu Asn Leu	Phe Phe Val Met Glu	Tyr Leu Asn Gly Gly	Asp		
	455		460		465
Leu Met Tyr His	Ile Gln Ser Cys His	Lys Phe Asp Leu Ser	Arg		
	470		475		480
Ala Thr Phe Tyr	Ala Ala Glu Ile Ile	Leu Gly Leu Gln Phe	Leu		
	485		490		495
His Ser Lys Gly	Ile Val Tyr Arg Asp	Leu Lys Leu Asp Asn	Ile		
	500		505		510
Leu Leu Asp Lys	Asp Gly His Ile Lys	Ile Ala Asp Phe Gly	Met		
	515		520		525
Cys Lys Glu Asn	Met Leu Gly Asp Ala	Lys Thr Asn Thr Phe	Cys		
	530		535		540
Gly Thr Pro Asp	Tyr Ile Ala Pro Glu	Leu Phe Val Arg Glu	Pro		
	545		550		555
Glu Lys Arg Leu	Gly Val Arg Gly Asp	Ile Arg Gln His Pro	Leu		
	560		565		570
Phe Arg Glu Ile	Asn Trp Glu Glu Leu	Glu Arg Lys Glu Ile	Asp		
	575		580		585
Pro Pro Phe Arg	Pro Lys Val Lys Ser	Pro Phe Asp Cys Ser	Asn		
	590		595		600
Phe Asp Lys Glu	Phe Leu Asn Glu Lys	Pro Arg Leu Ser Phe	Ala		
	605		610		615
Asp Arg Ala Leu	Ile Asn Ser Met Asp	Gln Asn Met Phe Arg	Asn		
	620		625		630
Phe Ser Phe Met	Asn Pro Gly Met Glu	Arg Leu Ile Ser			
	635		640		

&lt;210&gt; 36

&lt;211&gt; 556

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 7523719CD1

<400> 36  
Met Ala Gly Ala Ser Glu Leu Gly Thr Gly Pro Gly Ala Ala Gly  
1 5 10 15  
Gly Asp Gly Asp Asp Ser Leu Tyr Pro Ile Ala Val Leu Ile Asp  
20 25 30  
Glu Leu Arg Asn Glu Asp Val Gln Leu Arg Leu Asn Ser Ile Lys  
35 40 45  
Lys Leu Ser Thr Ile Ala Leu Ala Leu Gly Val Glu Arg Thr Arg  
50 55 60  
Ser Glu Leu Leu Pro Phe Leu Thr Asp Thr Ile Tyr Asp Glu Asp  
65 70 75  
Glu Val Leu Leu Ala Leu Ala Glu Gln Leu Gly Asn Phe Thr Gly  
80 85 90  
Leu Val Gly Gly Pro Asp Phe Ala His Cys Leu Leu Pro Pro Leu  
95 100 105  
Glu Asn Leu Ala Thr Val Glu Glu Thr Val Val Arg Asp Lys Ala  
110 115 120  
Val Glu Ser Leu Arg Gln Ile Ser Gln Glu His Thr Pro Val Ala  
125 130 135  
Leu Glu Ala Tyr Phe Val Pro Leu Val Lys Arg Leu Ala Ser Gly  
140 145 150  
Asp Trp Phe Thr Ser Arg Thr Ser Ala Cys Gly Leu Phe Ser Val  
155 160 165  
Cys Tyr Pro Arg Ala Ser Asn Ala Val Lys Ala Glu Ile Arg Gln  
170 175 180  
Gln Phe Arg Ser Leu Cys Ser Asp Asp Thr Pro Met Val Arg Arg  
185 190 195  
Ala Ala Ala Ser Lys Leu Gly Glu Phe Ala Lys Val Leu Glu Leu  
200 205 210  
Asp Ser Val Lys Ser Glu Ile Val Pro Leu Phe Thr Ser Leu Ala  
215 220 225  
Ser Asp Glu Gln Asp Ser Val Arg Leu Leu Ala Val Glu Ala Cys  
230 235 240  
Val Ser Ile Ala Gln Leu Leu Ser Gln Asp Asp Leu Glu Thr Leu  
245 250 255  
Val Met Pro Thr Leu Arg Gln Ala Ala Glu Asp Lys Ser Trp Arg  
260 265 270  
Val Arg Tyr Met Val Ala Asp Arg Phe Ser Glu Leu Gln Lys Ala  
275 280 285  
Met Gly Pro Lys Ile Thr Leu Asn Asp Leu Ile Pro Ala Phe Gln  
290 295 300  
Asn Leu Leu Lys Asp Cys Glu Ala Glu Val Arg Ala Ala Ala  
305 310 315  
His Lys Val Lys Glu Leu Gly Glu Asn Leu Pro Ile Glu Asp Arg  
320 325 330  
Glu Thr Ile Ile Met Asn Gln Ile Leu Pro Tyr Ile Lys Cys Pro  
335 340 345  
Asp Val Arg Leu Asn Ile Ile Ser Asn Leu Asp Cys Val Asn Glu  
350 355 360  
Val Ile Gly Ile Arg Gln Leu Ser Gln Pro Leu Leu Pro Ala Ile  
365 370 375  
Val Glu Leu Ala Glu Asp Ala Lys Trp Arg Val Arg Leu Ala Ile  
380 385 390  
Ile Glu Tyr Met Pro Leu Leu Ala Gly Gln Leu Gly Val Glu Phe  
395 400 405  
Phe Asp Glu Lys Leu Asn Ser Leu Cys Met Ala Trp Leu Val Asp  
410 415 420  
His Val Tyr Ala Ile Arg Glu Ala Ala Thr Asn Asn Leu Met Lys  
425 430 435  
Leu Val Gln Lys Phe Gly Thr Glu Trp Ala Gln Asn Thr Ile Val  
440 445 450  
Pro Lys Val Leu Val Met Ala Asn Asp Pro Asn Tyr Leu His Arg  
455 460 465

Met	Thr	Thr	Leu	Phe	Cys	Ile	Asn	Ala	Leu	Ser	Glu	Ala	Cys	Gly	
				470					475					480	
Gln	Glu	Ile	Thr	Thr	Lys	Gln	Met	Leu	Pro	Ile	Val	Leu	Lys	Met	
				485					490					495	
Ala	Gly	Asp	Gln	Val	Ala	Asn	Val	Arg	Phe	Asn	Val	Ala	Lys	Ser	
				500					505					510	
Leu	Gln	Lys	Ile	Gly	Pro	Ile	Leu	Asp	Thr	Asn	Ala	Leu	Gln	Gly	
				515					520					525	
Glu	Val	Lys	Pro	Val	Leu	Gln	Lys	Leu	Gly	Gln	Asp	Glu	Asp	Val	
				530					535					540	
Asp	Val	Lys	Tyr	Phe	Ala	Gln	Glu	Ala	Ile	Ser	Val	Leu	Ala	Leu	
				545					550					555	
Ala															

&lt;210&gt; 37

&lt;211&gt; 728

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 7523720CD1

&lt;400&gt; 37

Met	Pro	Leu	Ala	Ala	Tyr	Cys	Tyr	Leu	Arg	Val	Val	Gly	Lys	Gly	
1				5					10					15	
Ser	Tyr	Gly	Glu	Val	Thr	Leu	Val	Lys	His	Arg	Arg	Asp	Gly	Lys	
				20					25					30	
Gln	Tyr	Val	Ile	Lys	Lys	Leu	Asn	Leu	Arg	Asn	Ala	Ser	Ser	Arg	
				35					40					45	
Glu	Arg	Arg	Ala	Ala	Glu	Gln	Glu	Ala	Gln	Leu	Leu	Ser	Gln	Leu	
				50					55					60	
Lys	His	Pro	Asn	Ile	Val	Thr	Tyr	Lys	Glu	Ser	Trp	Glu	Gly	Gly	
				65					70					75	
Asp	Gly	Leu	Leu	Tyr	Ile	Val	Met	Gly	Phe	Cys	Glu	Gly	Gly	Asp	
				80					85					90	
Leu	Tyr	Arg	Lys	Leu	Lys	Glu	Gln	Lys	Gly	Gln	Leu	Leu	Pro	Glu	
				95					100					105	
Asn	Gln	Val	Val	Glu	Trp	Phe	Val	Gln	Ile	Ala	Met	Ala	Leu	Gln	
				110					115					120	
Cys	Leu	His	Glu	Lys	His	Ile	Leu	His	Arg	Asp	Leu	Lys	Thr	Gln	
				125					130					135	
Asn	Val	Phe	Leu	Thr	Arg	Thr	Ser	Ile	Ile	Lys	Val	Gly	Asp	Leu	
				140					145					150	
Gly	Ile	Ala	Arg	Val	Leu	Glu	Asn	His	Cys	Asp	Met	Ala	Ser	Thr	
				155					160					165	
Leu	Ile	Gly	Thr	Pro	Tyr	Tyr	Met	Ser	Pro	Glu	Leu	Phe	Ser	Asn	
				170					175					180	
Lys	Pro	Tyr	Asn	Tyr	Lys	Ser	Asp	Val	Trp	Ala	Leu	Gly	Cys	Cys	
				185					190					195	
Val	Tyr	Glu	Met	Ala	Thr	Leu	Lys	His	Ala	Phe	Asn	Ala	Lys	Asp	
				200					205					210	
Met	Asn	Ser	Leu	Val	Tyr	Arg	Ile	Ile	Glu	Gly	Lys	Leu	Pro	Pro	
				215					220					225	
Met	Pro	Arg	Asp	Tyr	Ser	Pro	Glu	Leu	Ala	Glu	Leu	Ile	Arg	Thr	
				230					235					240	
Met	Leu	Ser	Lys	Arg	Pro	Glu	Glu	Arg	Pro	Ser	Val	Arg	Ser	Ile	
				245					250					255	
Leu	Arg	Gln	Pro	Tyr	Ile	Lys	Arg	Gln	Ile	Ser	Phe	Phe	Leu	Glu	
				260					265					270	
Ala	Thr	Lys	Ile	Lys	Thr	Ser	Lys	Asn	Asn	Ile	Lys	Asn	Gly	Asp	
				275					280					285	

Ser	Gln	Ser	Lys	Pro	Phe	Ala	Thr	Val	Val	Ser	Gly	Glu	Ala	Glu
				290					295					300
Ser	Asn	His	Glu	Val	Ile	His	Pro	Gln	Pro	Leu	Ser	Ser	Glu	Gly
				305					310					315
Ser	Gln	Thr	Tyr	Ile	Met	Gly	Glu	Gly	Lys	Cys	Leu	Ser	Gln	Glu
				320					325					330
Lys	Pro	Arg	Ala	Ser	Gly	Leu	Leu	Lys	Ser	Pro	Ala	Ser	Leu	Lys
				335					340					345
Ala	His	Thr	Cys	Lys	Gln	Asp	Leu	Ser	Asn	Thr	Thr	Glu	Leu	Ala
				350					355					360
Thr	Ile	Ser	Ser	Val	Asn	Ile	Asp	Ile	Leu	Pro	Ala	Lys	Gly	Arg
				365					370					375
Asp	Ser	Val	Ser	Asp	Gly	Phe	Val	Gln	Glu	Asn	Gln	Pro	Arg	Tyr
				380					385					390
Leu	Asp	Ala	Ser	Asn	Glu	Leu	Gly	Gly	Ile	Cys	Ser	Ile	Ser	Gln
				395					400					405
Val	Glu	Glu	Glu	Met	Leu	Gln	Asp	Asn	Thr	Lys	Ser	Ser	Ala	Gln
				410					415					420
Pro	Glu	Asn	Leu	Ile	Pro	Met	Trp	Ser	Ser	Asp	Ile	Val	Thr	Gly
				425					430					435
Glu	Lys	Asn	Glu	Pro	Val	Lys	Pro	Leu	Gln	Pro	Leu	Ile	Lys	Glu
				440					445					450
Gln	Lys	Pro	Lys	Asp	Gln	Asp	Gln	Val	Ala	Gly	Glu	Cys	Ile	Ile
				455					460					465
Glu	Lys	Gln	Gly	Arg	Ile	His	Pro	Asp	Leu	Gln	Pro	His	Asn	Ser
				470					475					480
Gly	Ser	Glu	Pro	Ser	Leu	Ser	Arg	Gln	Arg	Arg	Gln	Lys	Arg	Arg
				485					490					495
Glu	Gln	Thr	Glu	His	Arg	Gly	Glu	Lys	Arg	Gln	Val	Arg	Arg	Asp
				500					505					510
Leu	Phe	Ala	Phe	Gln	Glu	Ser	Pro	Pro	Arg	Phe	Leu	Pro	Ser	His
				515					520					525
Pro	Ile	Val	Gly	Lys	Val	Asp	Val	Thr	Ser	Thr	Gln	Lys	Glu	Ala
				530					535					540
Glu	Asn	Gln	Arg	Arg	Val	Val	Thr	Gly	Ser	Val	Ser	Ser	Ser	Arg
				545					550					555
Ser	Ser	Glu	Met	Ser	Ser	Ser	Lys	Asp	Arg	Pro	Leu	Ser	Ala	Arg
				560					565					570
Glu	Arg	Arg	Arg	Leu	Lys	Gln	Ser	Gln	Glu	Glu	Met	Ser	Ser	Ser
				575					580					585
Gly	Pro	Ser	Val	Arg	Lys	Ala	Ser	Leu	Ser	Val	Ala	Gly	Pro	Gly
				590					595					600
Lys	Pro	Gln	Glu	Glu	Asp	Gln	Pro	Leu	Pro	Ala	Arg	Arg	Leu	Ser
				605					610					615
Ser	Asp	Cys	Ser	Val	Thr	Gln	Glu	Arg	Lys	Gln	Ile	His	Cys	Leu
				620					625					630
Ser	Glu	Asp	Glu	Leu	Ser	Ser	Ser	Thr	Ser	Ser	Thr	Asp	Lys	Ser
				635					640					645
Asp	Gly	Asp	Tyr	Gly	Glu	Gly	Lys	Gly	Gln	Thr	Asn	Glu	Ile	Asn
				650					655					660
Ala	Leu	Val	Gln	Leu	Met	Thr	Gln	Thr	Leu	Lys	Leu	Asp	Ser	Lys
				665					670					675
Glu	Ser	Cys	Glu	Asp	Val	Pro	Val	Ala	Asn	Pro	Val	Ser	Glu	Phe
				680					685					690
Lys	Leu	His	Arg	Lys	Tyr	Arg	Asp	Thr	Leu	Ile	Leu	His	Gly	Lys
				695					700					705
Val	Ala	Glu	Glu	Ala	Glu	Glu	Ile	His	Phe	Lys	Glu	Leu	Pro	Ser
				710					715					720
Gly	Thr	Phe	Ala	Gly	Ala	His	Gly							
				725										

&lt;210&gt; 38

&lt;211&gt; 646

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 7523737CD1

&lt;400&gt; 38

Met	Gln	Ser	Thr	Ala	Asn	Tyr	Leu	Trp	His	Thr	Asp	Asp	Leu	Leu
1				5					10					15
Gly	Gln	Gly	Ala	Thr	Ala	Ser	Val	Tyr	Lys	Ala	Arg	Asn	Lys	Lys
				20					25					30
Ser	Gly	Glu	Leu	Val	Ala	Val	Lys	Val	Phe	Asn	Thr	Thr	Ser	Tyr
				35					40					45
Leu	Arg	Pro	Arg	Glu	Val	Gln	Val	Arg	Glu	Phe	Glu	Val	Leu	Arg
				50					55					60
Lys	Leu	Asn	His	Gln	Asn	Ile	Val	Lys	Leu	Phe	Ala	Val	Glu	Glu
				65					70					75
Thr	Gly	Gly	Ser	Arg	Gln	Lys	Val	Leu	Val	Met	Glu	Tyr	Cys	Ser
				80					85					90
Ser	Gly	Ser	Leu	Leu	Ser	Val	Leu	Glu	Ser	Pro	Glu	Asn	Ala	Phe
				95					100					105
Gly	Leu	Pro	Glu	Asp	Glu	Phe	Leu	Val	Val	Leu	Arg	Cys	Val	Val
				110					115					120
Ala	Gly	Met	Asn	His	Leu	Arg	Glu	Asn	Gly	Ile	Val	His	Arg	Asp
				125					130					135
Ile	Lys	Pro	Gly	Asn	Ile	Met	Arg	Leu	Val	Gly	Glu	Glu	Gly	Gln
				140					145					150
Ser	Ile	Tyr	Lys	Leu	Thr	Asp	Phe	Gly	Ala	Ala	Arg	Glu	Leu	Asp
				155					160					165
Asp	Asp	Glu	Lys	Phe	Val	Ser	Val	Tyr	Gly	Thr	Glu	Glu	Tyr	Leu
				170					175					180
His	Pro	Asp	Met	Tyr	Glu	Arg	Ala	Val	Leu	Arg	Lys	Pro	Gln	Gln
				185					190					195
Lys	Ala	Phe	Gly	Val	Thr	Val	Asp	Leu	Trp	Ser	Ile	Gly	Val	Thr
				200					205					210
Leu	Tyr	His	Ala	Ala	Thr	Gly	Ser	Leu	Pro	Phe	Ile	Pro	Phe	Gly
				215					220					225
Gly	Pro	Arg	Arg	Asn	Lys	Glu	Ile	Met	Tyr	Arg	Ile	Thr	Thr	Glu
				230					235					240
Lys	Pro	Ala	Gly	Ala	Ile	Ala	Gly	Ala	Gln	Arg	Arg	Glu	Asn	Gly
				245					250					255
Pro	Leu	Glu	Trp	Ser	Tyr	Thr	Leu	Pro	Ile	Thr	Cys	Gln	Leu	Ser
				260					265					270
Leu	Gly	Leu	Gln	Ser	Gln	Leu	Val	Pro	Ile	Leu	Ala	Asn	Ile	Leu
				275					280					285
Glu	Val	Glu	Gln	Ala	Lys	Cys	Trp	Gly	Phe	Asp	Gln	Phe	Phe	Ala
				290					295					300
Glu	Thr	Ser	Asp	Ile	Leu	Gln	Arg	Val	Val	Val	His	Val	Phe	Ser
				305					310					315
Leu	Ser	Gln	Ala	Val	Leu	His	His	Ile	Tyr	Ile	His	Ala	His	Asn
				320					325					330
Thr	Ile	Ala	Ile	Phe	Gln	Glu	Ala	Val	His	Lys	Gln	Thr	Ser	Val
				335					340					345
Ala	Pro	Arg	His	Gln	Glu	Tyr	Leu	Phe	Glu	Gly	His	Leu	Cys	Val
				350					355					360
Leu	Glu	Pro	Ser	Val	Ser	Ala	Gln	His	Ile	Ala	His	Thr	Thr	Ala
				365					370					375
Ser	Ser	Pro	Leu	Thr	Leu	Phe	Ser	Thr	Ala	Ile	Pro	Lys	Gly	Leu
				380					385					390
Ala	Phe	Arg	Asp	Pro	Ala	Leu	Asp	Val	Pro	Lys	Phe	Val	Pro	Lys
				395					400					405
Val	Asp	Leu	Gln	Ala	Asp	Tyr	Asn	Thr	Ala	Lys	Gly	Val	Leu	Gly

	410		415		420
Ala Gly Tyr Gln	Ala Leu Arg Leu Ala	Arg Ala Leu Leu Asp	Gly		
	425		430		435
Gln Glu Leu Met	Phe Arg Gly Leu His	Trp Val Met Glu Val	Leu		
	440		445		450
Gln Ala Thr Cys	Arg Arg Thr Leu Glu	Val Ala Arg Thr Ser	Leu		
	455		460		465
Leu Tyr Leu Ser	Ser Ser Leu Gly Thr	Glu Arg Phe Ser Ser	Val		
	470		475		480
Ala Gly Thr Pro	Glu Ile Gln Glu Leu	Lys Ala Ala Ala Glu	Leu		
	485		490		495
Arg Ser Arg Leu	Arg Thr Leu Ala Glu	Val Leu Ser Arg Cys	Ser		
	500		505		510
Gln Asn Ile Thr	Glu Thr Gln Glu Ser	Leu Ser Ser Leu Asn	Arg		
	515		520		525
Glu Leu Val Lys	Ser Arg Asp Gln Val	His Glu Asp Arg Ser	Ile		
	530		535		540
Gln Gln Ile Gln	Cys Cys Leu Asp Lys	Met Asn Phe Ile Tyr	Lys		
	545		550		555
Gln Phe Lys Lys	Ser Arg Met Arg Pro	Gly Leu Gly Tyr Asn	Glu		
	560		565		570
Glu Gln Ile His	Lys Leu Asp Lys Val	Asn Phe Ser His Leu	Ala		
	575		580		585
Lys Arg Leu Leu	Gln Val Phe Gln Glu	Glu Cys Val Gln Lys	Tyr		
	590		595		600
Gln Ala Ser Leu	Val Thr His Gly Lys	Arg Met Ser Met Gln	Glu		
	605		610		615
Leu Cys Glu Gly	Met Lys Leu Leu Ala	Ser Asp Leu Leu Asp	Asn		
	620		625		630
Asn Arg Ile Ile	Glu Arg Leu Asn Arg	Val Pro Ala Pro Pro	Asp		
	635		640		645
Val					

&lt;210&gt; 39

&lt;211&gt; 385

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 7523742CD1

&lt;400&gt; 39

Met Ala Gly Asn Cys	Gly Ala Arg Gly Ala	Leu Ser Ala His Thr	
1	5	10	15
Leu Leu Phe Asp Leu	Pro Pro Ala Leu Leu	Gly Glu Leu Cys Ala	
	20	25	30
Val Leu Asp Ser Cys	Asp Gly Ala Leu Gly	Trp Arg Gly Leu Gly	
	35	40	45
Ala Val Leu Ser Pro	Ser Glu Lys Ser Tyr	Gln Glu Gly Gly Phe	
	50	55	60
Pro Asn Ile Leu Phe	Lys Glu Thr Ala Asn	Val Thr Val Asp Asn	
	65	70	75
Val Leu Ile Pro Glu	His Asn Glu Lys Gly	Val Leu Leu Lys Ser	
	80	85	90
Ser Ile Ser Phe Gln	Asn Ile Ile Glu Gly	Thr Arg Asn Phe His	
	95	100	105
Lys Asp Phe Leu Ile	Gly Glu Gly Glu Ile	Phe Glu Val Tyr Arg	
	110	115	120
Val Glu Ile Gln Asn	Leu Thr Tyr Ala Val	Lys Leu Phe Lys Gln	
	125	130	135
Glu Lys Lys Met Gln	Cys Lys Lys His Trp	Lys Arg Phe Leu Ser	



	140		145		150
Glu Leu Glu Val	Leu Leu Leu Phe His	His Pro Asn Ile Leu	Glu		
	155		160		165
Leu Ala Ala Tyr	Phe Thr Glu Thr Glu	Lys Phe Cys Leu Ile	Tyr		
	170		175		180
Pro Tyr Met Arg	Asn Gly Thr Leu Phe	Gly Arg Leu Gln Cys	Val		
	185		190		195
Gly Asp Thr Ala	Pro Leu Pro Trp His	Ile Arg Ile Gly Ile	Leu		
	200		205		210
Ile Gly Ile Ser	Lys Ala Ile His Tyr	Leu His Asn Val Gln	Pro		
	215		220		225
Cys Ser Val Ile	Cys Gly Ser Ile Ser	Ser Ala Asn Ile Leu	Leu		
	230		235		240
Asp Asp Gln Phe	Gln Pro Lys Leu Thr	Asp Phe Ala Met Ala	His		
	245		250		255
Phe Arg Ser His	Leu Glu His Gln Ser	Cys Thr Ile Asn Met	Thr		
	260		265		270
Ser Ser Ser Ser	Lys His Leu Trp Tyr	Met Pro Glu Glu Tyr	Ile		
	275		280		285
Arg Gln Gly Lys	Leu Ser Ile Lys Thr	Asp Val Tyr Ser Phe	Gly		
	290		295		300
Ile Val Ile Met	Glu Val Leu Thr Gly	Cys Arg Val Val Leu	Asp		
	305		310		315
Asp Pro Lys His	Ile Gln Leu Arg Asp	Leu Leu Arg Glu Leu	Met		
	320		325		330
Glu Lys Arg Gly	Leu Asp Ser Cys Leu	Ser Phe Leu Asp Lys	Lys		
	335		340		345
Val Pro Pro Cys	Pro Arg Asn Phe Ser	Ala Glu Leu Phe Cys	Leu		
	350		355		360
Ala Gly Arg Cys	Ala Ala Thr Arg Ala	Lys Leu Arg Pro Ser	Met		
	365		370		375
Asp Glu Val Leu	Asn Thr Leu Glu Ser	Thr			
	380		385		

&lt;210&gt; 40

&lt;211&gt; 469

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 7523743CD1

&lt;400&gt; 40

Met Ala Gly Ala Ser	Glu Leu Gly Thr Gly	Pro Gly Ala Ala Gly	
1	5	10	15
Gly Asp Gly Asp Asp	Ser Leu Tyr Pro Ile	Ala Val Leu Ile Asp	
	20	25	30
Glu Leu Arg Asn Glu	Asp Val Gln Leu Arg	Leu Asn Ser Ile Lys	
	35	40	45
Lys Leu Ser Thr Ile	Ala Leu Ala Leu Gly	Val Glu Arg Thr Arg	
	50	55	60
Ser Glu Leu Leu Pro	Phe Leu Thr Asp Thr	Ile Tyr Asp Glu Asp	
	65	70	75
Glu Val Leu Leu Ala	Leu Ala Glu Gln Leu	Gly Asn Phe Thr Gly	
	80	85	90
Leu Val Gly Gly Pro	Asp Phe Ala His Cys	Leu Leu Pro Pro Leu	
	95	100	105
Glu Asn Leu Ala Thr	Val Glu Glu Thr Val	Val Arg Asp Lys Ala	
	110	115	120
Val Glu Ser Leu Arg	Gln Ile Ser Gln Glu	His Thr Pro Val Ala	
	125	130	135
Leu Glu Ala Tyr Phe	Val Pro Leu Val Lys	Arg Leu Ala Ser Gly	

Asp Trp Phe Thr	140	Ser Arg Thr Ser Ala Cys Gly Leu Phe Ser Val	145	150
Cys Tyr Pro Arg	155	Ala Ser Asn Ala Val Lys Ala Glu Ile Arg Gln	160	165
Gln Phe Arg Ser	170	Leu Cys Ser Asp Asp Thr Pro Met Val Arg Arg	175	180
Ala Ala Ala Ser	185	Lys Leu Gly Glu Phe Ala Lys Val Leu Glu Leu	190	195
Asp Ser Val Lys	200	Ser Glu Ile Val Pro Leu Phe Thr Ser Leu Ala	205	210
Ser Asp Glu Gln	215	Asp Ser Val Arg Leu Leu Ala Val Glu Ala Cys	220	225
Val Ser Ile Ala	230	Gln Leu Leu Ser Gln Asp Asp Leu Glu Thr Leu	235	240
Val Met Pro Thr	245	Leu Arg Gln Ala Ala Glu Asp Lys Ser Trp Arg	250	255
Val Arg Tyr Met	260	Val Ala Asp Arg Phe Ser Glu Leu Gln Lys Ala	265	270
Met Gly Pro Lys	275	Ile Thr Leu Asn Asp Leu Ile Pro Ala Phe Gln	280	285
Asn Leu Leu Lys	290	Asp Cys Glu Ala Glu Val Arg Ala Ala Ala Ala	295	300
His Lys Val Lys	305	Glu Leu Gly Glu Asn Leu Pro Ile Glu Asp Arg	310	315
Glu Thr Ile Ile	320	Met Asn Gln Ile Leu Pro Tyr Ile Lys Glu Leu	325	330
Val Ser Asp Thr	335	Asn Gln His Val Lys Ser Ala Leu Ala Ser Val	340	345
Ile Met Gly Leu	350	Ser Thr Ile Leu Gly Lys Glu Asn Thr Ile Glu	355	360
His Leu Leu Pro	365	Leu Phe Leu Ala Gln Leu Lys Asp Glu Cys Pro	370	375
Asp Val Arg Leu	380	Asn Ile Ile Ser Asn Leu Asp Cys Val Asn Glu	385	390
Val Ile Gly Ile	395	Arg Gln Leu Ser Gln Ser Leu Pro Pro Ala Ile	400	405
Val Glu Leu Ala	410	Glu Asp Ala Lys Trp Arg Val Arg Leu Ala Ile	415	420
Ile Glu Tyr Met	425	Pro Leu Leu Ala Gly Gln Leu Gly Val Glu Phe	430	435
Phe Asp Glu Lys	440	Leu Asn Ser Leu Cys Met Ala Trp Leu Val Asp	445	450
His Gly Thr Val	455		460	465

&lt;210&gt; 41

&lt;211&gt; 147

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 7523745CD1

&lt;400&gt; 41

Met Gly Cys Val Phe Cys Lys Lys Leu Glu Pro Val Ala Thr Ala	1	5	10	15
Lys Glu Asp Ala Gly Leu Glu Gly Asp Phe Arg Ser Tyr Gly Ala	20	25	30	35
Ala Asp His Tyr Gly Pro Asp Pro Thr Lys Ala Arg Pro Ala Ser	40	45	50	55
Ser Phe Ala His Ile Pro Asn Tyr Ser Asn Phe Ser Ser Gln Ala	60	65	70	75

	50		55		60
Ile Asn Pro Gly Phe	Leu Asp Ser Gly Thr	Ile Arg Gly Val Ser			
	65		70		75
Gly Ile Gly Val Thr	Leu Phe Ile Ala Leu	Tyr Asp Tyr Glu Ala			
	80		85		90
Arg Thr Glu Asp Asp	Leu Thr Phe Thr Lys	Gly Glu Lys Phe His			
	95		100		105
Ile Leu Asn Asn Thr	Glu Gly Asp Trp Trp	Glu Ala Arg Ser Leu			
	110		115		120
Ser Ser Gly Lys Thr	Gly Cys Ile Pro Ser	Asn Tyr Val Ala Pro			
	125		130		135
Val Asp Ser Ile Gln	Ala Glu Asp Tyr Ile	Asp Gly			
	140		145		

<210> 42  
 <211> 145  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 7523757CD1

<400> 42	
Met Glu Leu Arg Asp	Val Ser Leu Gln Asp Pro Arg Asp Arg Phe
1	5 10 15
Glu Leu Leu Gln Arg	Val Gly Ala Gly Thr Tyr Gly Asp Val Tyr
	20 25 30
Lys Ala Arg Asp Thr	Val Thr Ser Glu Leu Ala Ala Val Lys Ile
	35 40 45
Val Lys Leu Asp Pro	Gly Asp Asp Ile Ser Ser Leu Gln Gln Glu
	50 55 60
Ile Thr Ile Leu Arg	Glu Cys Arg His Pro Asn Val Val Ala Tyr
	65 70 75
Ile Gly Ser Tyr Leu	Arg Asn Asp Arg Leu Trp Ile Cys Met Glu
	80 85 90
Phe Cys Gly Gly Gly	Ser Leu Gln Glu Ile Tyr His Ala Thr Gly
	95 100 105
Pro Leu Glu Glu Arg	Gln Ile Ala Tyr Val Cys Arg Glu Ala Leu
	110 115 120
Lys Gly Leu His His	Leu His Ser Gln Gly Lys Ile His Arg Asp
	125 130 135
Ile Lys Leu Thr Leu	Gly Cys Gln Ala Ser
	140 145

<210> 43  
 <211> 653  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 7523770CD1

<400> 43	
Met Asp Glu Gln Glu	Ala Leu Asn Ser Ile Met Asn Asp Leu Val
1	5 10 15
Ala Leu Gln Met Asn	Arg Arg His Arg Met Pro Gly Tyr Glu Thr
	20 25 30
Met Lys Asn Lys Asp	Thr Gly His Ser Asn Arg Gln Lys Lys His
	35 40 45
Asn Ser Ser Ser Ser	Ala Leu Leu Asn Ser Pro Thr Val Thr Thr
	50 55 60

Ser	Ser	Cys	Ala	Gly	Ala	Ser	Glu	Lys	Lys	Lys	Phe	Leu	Ser	Asp
				65					70					75
Val	Arg	Ile	Lys	Phe	Glu	His	Asn	Gly	Glu	Arg	Arg	Ile	Ile	Ala
				80					85					90
Phe	Ser	Arg	Pro	Val	Lys	Tyr	Glu	Asp	Val	Glu	His	Lys	Val	Thr
				95					100					105
Thr	Val	Phe	Gly	Gln	Pro	Leu	Asp	Leu	His	Tyr	Met	Asn	Asn	Glu
				110					115					120
Leu	Ser	Ile	Leu	Leu	Lys	Asn	Gln	Asp	Asp	Leu	Asp	Lys	Ala	Ile
				125					130					135
Asp	Ile	Leu	Asp	Arg	Ser	Ser	Ser	Met	Lys	Ser	Leu	Arg	Ile	Leu
				140					145					150
Leu	Leu	Ser	Gln	Asp	Arg	Asn	His	Asn	Ser	Ser	Ser	Pro	His	Ser
				155					160					165
Gly	Val	Ser	Arg	Gln	Val	Arg	Ile	Lys	Ala	Ser	Gln	Ser	Ala	Gly
				170					175					180
Asp	Ile	Asn	Thr	Ile	Tyr	Gln	Pro	Pro	Glu	Pro	Arg	Ser	Arg	His
				185					190					195
Leu	Ser	Val	Ser	Ser	Gln	Asn	Pro	Gly	Arg	Ser	Ser	Pro	Pro	Pro
				200					205					210
Gly	Tyr	Val	Pro	Glu	Arg	Gln	Gln	His	Ile	Ala	Arg	Gln	Gly	Ser
				215					220					225
Tyr	Thr	Ser	Ile	Asn	Ser	Glu	Gly	Glu	Phe	Ile	Pro	Glu	Thr	Ser
				230					235					240
Glu	Gln	Cys	Met	Leu	Asp	Pro	Leu	Ser	Ser	Ala	Glu	Asn	Ser	Leu
				245					250					255
Ser	Gly	Ser	Cys	Gln	Ser	Leu	Asp	Ser	Pro	Ser	Phe	Arg	Lys	Ser
				260					265					270
Arg	Met	Ser	Arg	Ala	Gln	Ser	Phe	Pro	Asp	Asn	Arg	Gln	Glu	Tyr
				275					280					285
Ser	Asp	Arg	Glu	Thr	Gln	Leu	Tyr	Asp	Lys	Gly	Val	Lys	Gly	Gly
				290					295					300
Thr	Tyr	Pro	Arg	Arg	Tyr	His	Val	Ser	Val	His	His	Lys	Asp	Tyr
				305					310					315
Ser	Asp	Gly	Arg	Arg	Thr	Phe	Pro	Arg	Ile	Arg	Arg	His	Gln	Gly
				320					325					330
Asn	Leu	Phe	Thr	Leu	Val	Pro	Ser	Ser	Arg	Ser	Leu	Ser	Thr	Asn
				335					340					345
Gly	Glu	Asn	Met	Gly	Leu	Ala	Val	Gln	Tyr	Leu	Asp	Pro	Arg	Gly
				350					355					360
Arg	Leu	Arg	Ser	Ala	Asp	Ser	Glu	Asn	Ala	Leu	Ser	Val	Gln	Glu
				365					370					375
Arg	Asn	Val	Pro	Thr	Lys	Ser	Pro	Ser	Ala	Pro	Ile	Asn	Trp	Arg
				380					385					390
Arg	Gly	Lys	Leu	Leu	Gly	Gln	Gly	Ala	Phe	Gly	Arg	Val	Tyr	Leu
				395					400					405
Cys	Tyr	Asp	Val	Asp	Thr	Gly	Arg	Glu	Leu	Ala	Ser	Lys	Gln	Val
				410					415					420
Gln	Phe	Asp	Pro	Asp	Ser	Pro	Glu	Thr	Ser	Lys	Glu	Val	Ser	Ala
				425					430					435
Leu	Glu	Cys	Glu	Ile	Gln	Leu	Leu	Lys	Asn	Leu	Gln	His	Glu	Arg
				440					445					450
Ile	Val	Gln	Tyr	Tyr	Gly	Cys	Leu	Arg	Asp	Arg	Ala	Glu	Lys	Thr
				455					460					465
Leu	Thr	Ile	Phe	Met	Glu	Tyr	Met	Pro	Gly	Gly	Ser	Val	Lys	Asp
				470					475					480
Gln	Leu	Lys	Ala	Tyr	Gly	Ala	Leu	Thr	Glu	Ser	Val	Thr	Arg	Lys
				485					490					495
Tyr	Thr	Arg	Gln	Ile	Leu	Glu	Gly	Met	Ser	Tyr	Leu	His	Ser	Asn
				500					505					510
Met	Ile	Val	His	Arg	Asp	Ile	Lys	Gly	Ala	Asn	Ile	Leu	Arg	Asp
				515					520					525
Ser	Ala	Gly	Asn	Val	Lys	Leu	Gly	Asp	Phe	Gly	Ala	Ser	Lys	Arg

Leu Gln Thr Ile	530	Cys Met Ser Gly Thr	535	Gly Met Arg Ser Val Thr	540
Gly Thr Pro Tyr	545	Trp Met Ser Pro Glu	550	Val Ile Ser Gly Glu Gly	555
Tyr Gly Arg Lys	560	Ala Asp Val Trp Ser	565	Leu Gly Cys Thr Val Val	570
Glu Met Leu Thr	575	Glu Lys Pro Pro Trp	580	Ala Glu Tyr Glu Ala Met	585
Ala Ala Ile Phe	590	Lys Ile Ala Thr Gln	595	Pro Thr Asn Pro Gln Leu	600
Pro Ser His Ile	605	Ser Glu His Gly Arg	610	Asp Phe Leu Arg Arg Ile	615
Phe Val Glu Ala	620	Arg Gln Arg Pro Ser	625	Ala Glu Glu Leu Leu Thr	630
His His Phe Ala	635	Gln Leu Met Tyr	640		645
	650				

&lt;210&gt; 44

&lt;211&gt; 706

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 7523919CD1

&lt;400&gt; 44

Met Pro Leu Ala Ala	1	Tyr Cys Tyr Leu Arg	5	Val Val Gly Lys Gly	10
Ser Tyr Gly Glu Val	15	Thr Leu Val Lys His	20	Arg Arg Asp Gly Lys	25
Gln Tyr Leu His Glu	30	Lys His Ile Leu His	35	Arg Asp Leu Lys Thr	40
Gln Asn Val Phe Leu	45	Thr Arg Thr Asn Ile	50	Ile Lys Val Gly Asp	55
Leu Gly Ile Ala Arg	60	Val Leu Glu Asn His	65	Cys Asp Met Ala Ser	70
Thr Leu Ile Gly Thr	75	Pro Tyr Tyr Met Ser	80	Pro Glu Leu Phe Ser	85
Asn Lys Pro Tyr Asn	90	Tyr Lys Ser Asp Val	95	Trp Ala Leu Gly Cys	100
Cys Val Tyr Glu Met	105	Ala Thr Leu Lys His	110	Ala Phe Asn Ala Lys	115
Asp Met Asn Ser Leu	120	Val Tyr Arg Ile Ile	125	Glu Gly Lys Leu Pro	130
Ala Met Pro Arg Asp	135	Tyr Ser Pro Glu Leu	140	Ala Glu Leu Ile Arg	145
Thr Met Leu Ser Lys	150	Arg Pro Glu Glu Arg	155	Pro Ser Val Arg Ser	160
Ile Leu Arg Gln Pro	165	Tyr Ile Lys Arg Gln	170	Ile Ser Phe Phe Leu	175
Glu Ala Thr Lys Ile	180	Lys Thr Ser Lys Asn	185	Asn Ile Lys Asn Gly	190
Asp Ser Gln Ser Lys	195	Pro Phe Ala Thr Val	200	Val Ser Gly Glu Ala	205
Glu Ser Asn His Glu	210	Val Ile His Pro Gln	215	Pro Leu Ser Ser Glu	220
Gly Ser Gln Thr Tyr	225	Ile Met Gly Glu Lys	230	Cys Leu Ser Gln	235
Glu Lys Pro Arg Ala	240	Ser Gly Leu Leu Lys	245	Ser Pro Ala Ser Leu	250
Lys Ala His Thr Cys	255	Lys Gln Asp Leu Ser		Asn Thr Thr Glu Leu	

Ala Thr Ile Ser	260	Ser Val Asn Ile Asp	265	Ile Leu Pro Ala Lys	270
Arg Asp Ser Val	275	Ser Asp Gly Phe Val	280	Gln Glu Asn Gln Pro	285
Tyr Leu Asp Ala	290	Ser Asn Glu Leu Gly	295	Gly Ile Cys Ser Ile	300
Gln Val Glu Glu	305	Glu Met Leu Gln Asp	310	Asn Thr Lys Ser Ser	315
Gln Pro Glu Asn	320	Leu Ile Pro Met Trp	325	Ser Ser Asp Ile Val	330
Gly Glu Lys Asn	335	Glu Pro Val Lys Pro	340	Leu Gln Pro Leu Ile	345
Glu Gln Lys Pro	350	Lys Asp Gln Asp Gln	355	Val Ala Gly Glu Cys	360
Ile Glu Lys Gln	365	Gly Arg Ile His Pro	370	Asp Ser Gln Pro His	375
Ser Gly Ser Glu	380	Pro Ser Leu Ser Arg	385	Gln Arg Arg Gln Lys	390
Arg Glu Gln Thr	395	Glu His Arg Gly Glu	400	Lys Arg Gln Val Arg	405
Asp Leu Phe Ala	410	Phe Gln Glu Ser Pro	415	Pro Arg Phe Leu Pro	420
His Pro Ile Val	425	Gly Lys Val Asp Val	430	Ser Thr Gln Lys Glu	435
Ala Glu Asn Gln	440	Arg Arg Val Ala Thr	445	Gly Ser Val Ser Ser	450
Arg Ser Ser Glu	455	Met Ser Ser Ser Lys	460	Asp Arg Pro Leu Ser	465
Arg Glu Arg Arg	470	Arg Leu Lys Gln Ser	475	Gln Glu Glu Met Ser	480
Ser Gly Pro Ser	485	Val Arg Lys Ala Ser	490	Leu Ser Val Ala Gly	495
Gly Lys Pro Gln	500	Glu Glu Asp Gln Pro	505	Leu Pro Ala Arg Arg	510
Ser Ser Asp Cys	515	Ser Val Thr Gln Glu	520	Lys Gln Ile His Cys	525
Leu Ser Glu Asp	530	Glu Leu Ser Ser Ser	535	Thr Ser Ser Thr Asp	540
Ser Asp Gly Asp	545	Tyr Gly Glu Gly Lys	550	Gly Gln Thr Asn Glu	555
Asn Ala Leu Val	560	Gln Leu Met Thr Gln	565	Thr Leu Lys Leu Asp	570
Lys Glu Ser Cys	575	Glu Asp Val Pro Val	580	Ala Asn Pro Val Ser	585
Phe Lys Leu His	590	Arg Lys Tyr Arg Asp	595	Thr Leu Ile Leu His	600
Lys Val Ala Glu	605	Glu Ala Glu Glu Ile	610	His Phe Lys Glu Leu	615
Ser Ala Ile Met	620	Pro Gly Ser Glu Lys	625	Ile Arg Arg Leu Val	630
Val Leu Arg Thr	635	Asp Val Ile Arg Gly	640	Leu Gly Val Gln Leu	645
Glu Gln Val Tyr	650	Asp Leu Leu Glu Glu	655	Glu Asp Glu Phe Asp	660
Glu Val Arg Leu	665	Arg Glu His Met Gly	670	Glu Lys Tyr Thr Thr	675
Ser Val Lys Ala	680	Arg Gln Leu Lys Phe	685	Phe Glu Glu Asn Met	690
Phe	695		700		705

&lt;210&gt; 45

<411> 243  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 7522140CD1

<400> 45

Met	Asp	Pro	Thr	Ala	Gly	Ser	Lys	Lys	Glu	Pro	Gly	Gly	Gly	Ala
1				5					10					15
Ala	Thr	Glu	Glu	Gly	Val	Asn	Arg	Ile	Ala	Val	Pro	Lys	Pro	Pro
				20					25					30
Ser	Ile	Glu	Glu	Phe	Ser	Ile	Val	Lys	Pro	Ile	Ser	Arg	Gly	Ala
				35					40					45
Phe	Gly	Lys	Val	Tyr	Leu	Gly	Gln	Lys	Gly	Gly	Lys	Leu	Tyr	Ala
				50					55					60
Val	Lys	Val	Val	Lys	Lys	Ala	Asp	Met	Ile	Asn	Lys	Asn	Met	Thr
				65					70					75
His	Gln	Val	Gln	Ala	Glu	Arg	Asp	Ala	Leu	Ala	Leu	Ser	Lys	Ser
				80					85					90
Pro	Phe	Ile	Val	His	Leu	Tyr	Tyr	Ser	Leu	Gln	Ser	Ala	Asn	Asn
				95					100					105
Val	Tyr	Leu	Val	Met	Glu	Tyr	Leu	Ile	Gly	Gly	Asp	Val	Lys	Ser
				110					115					120
Leu	Leu	His	Ile	Tyr	Gly	Tyr	Phe	Asp	Glu	Glu	Met	Ala	Val	Lys
				125					130					135
Tyr	Ile	Ser	Glu	Val	Ala	Leu	Ala	Leu	Asp	Tyr	Leu	His	Arg	His
				140					145					150
Gly	Ile	Ile	His	Arg	Asp	Leu	Lys	Pro	Asp	Asn	Met	Leu	Ile	Ser
				155					160					165
Asn	Glu	Gly	His	Ile	Lys	Leu	Thr	Asp	Phe	Gly	Leu	Ser	Lys	Val
				170					175					180
Thr	Leu	Asn	Arg	Gly	Leu	Glu	Thr	Val	Ala	Ser	Asn	Pro	Gly	Met
				185					190					195
Pro	Val	Lys	Cys	Leu	Thr	Ser	Asn	Leu	Leu	Gln	Ser	Arg	Lys	Arg
				200					205					210
Leu	Ala	Thr	Ser	Ser	Ala	Ser	Ser	Gln	Ser	His	Thr	Phe	Ile	Ser
				215					220					225
Ser	Val	Glu	Ser	Glu	Cys	His	Ser	Ser	Pro	Lys	Trp	Glu	Lys	Asp
				230					235					240
Cys	Gln	Val												

<210> 46  
 <211> 416  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 7522525CD1

<400> 46

Met	Ile	Ser	Phe	Cys	Pro	Asp	Cys	Gly	Lys	Ser	Ile	Gln	Ala	Ala
1				5					10					15
Phe	Lys	Phe	Cys	Pro	Tyr	Cys	Gly	Asn	Ser	Leu	Pro	Val	Glu	Glu
				20					25					30
His	Val	Gly	Ser	Gln	Thr	Phe	Val	Asn	Pro	His	Val	Pro	Ser	Phe
				35					40					45
Gln	Gly	Ser	Lys	Arg	Gly	Leu	Asn	Ser	Ser	Phe	Glu	Thr	Ser	Pro
				50					55					60
Lys	Lys	Val	Lys	Trp	Ser	Ser	Thr	Val	Thr	Ser	Pro	Arg	Leu	Ser

	65		70		75
Leu Phe Ser Asp Gly	Asp Ser Ser Glu	Ser Glu Asp Thr Leu	Ser		
80			85		90
Ser Ser Glu Arg Ser	Lys Gly Thr Val	Leu Thr Asp Lys Ser	Gly		
95			100		105
Arg Gln Trp Lys Leu	Lys Ser Phe Gln	Thr Arg Asp Asn Gln	Gly		
110			115		120
Ile Leu Tyr Glu Ala	Ala Pro Thr Ser	Thr Leu Thr Cys Asp	Ser		
125			130		135
Gly Pro Gln Lys Gln	Lys Phe Ser Leu	Lys Leu Asp Ala Lys	Asp		
140			145		150
Gly Arg Leu Phe Asn	Glu Gln Asn Phe	Phe Gln Arg Ala Ala	Lys		
155			160		165
Pro Leu Gln Val Asn	Lys Trp Lys Lys	Leu Tyr Ser Thr Pro	Leu		
170			175		180
Leu Ala Ile Pro Thr	Cys Met Gly Phe	Gly Val His Gln Asp	Lys		
185			190		195
Tyr Arg Phe Leu Val	Leu Pro Ser Leu	Gly Arg Ser Leu Gln	Ser		
200			205		210
Ala Leu Asp Val Ser	Pro Lys His Val	Leu Ser Glu Arg Ser	Val		
215			220		225
Leu Gln Val Ala Cys	Arg Leu Leu Asp	Ala Leu Glu Phe Leu	His		
230			235		240
Glu Asn Glu Tyr Val	His Gly Asn Val	Thr Ala Glu Asn Ile	Phe		
245			250		255
Val Asp Pro Glu Asp	Gln Ser Gln Val	Thr Leu Ala Gly Tyr	Gly		
260			265		270
Phe Ala Phe Arg Tyr	Cys Pro Ser Gly	Lys His Val Ala Tyr	Val		
275			280		285
Glu Gly Ser Arg Ser	Pro His Glu Gly	Asp Leu Glu Phe Ile	Ser		
290			295		300
Met Asp Leu His Lys	Gly Cys Gly Pro	Ser Arg Arg Ser Asp	Leu		
305			310		315
Gln Ser Leu Gly Tyr	Cys Met Leu Lys	Trp Leu Tyr Gly Phe	Leu		
320			325		330
Pro Trp Thr Asn Cys	Leu Pro Asn Thr	Glu Asp Ile Met Lys	Gln		
335			340		345
Lys Gln Lys Phe Val	Asp Lys Pro Gly	Pro Phe Val Gly Pro	Cys		
350			355		360
Gly His Trp Ile Arg	Pro Ser Glu Thr	Leu Gln Lys Tyr Leu	Lys		
365			370		375
Val Val Met Ala Leu	Thr Tyr Glu Glu	Lys Pro Pro Tyr Ala	Met		
380			385		390
Leu Arg Asn Asn Leu	Glu Ala Leu Leu	Gln Asp Leu Arg Val	Ser		
395			400		405
Pro Tyr Asp Pro Ile	Gly Leu Pro Met	Val Pro			
410			415		

&lt;210&gt; 47

&lt;211&gt; 839

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 7525355CD1

&lt;400&gt; 47

Met Glu Thr Cys Ala	Gly Pro His Pro	Leu Arg Leu Phe Leu	Cys
1	5	10	15
Arg Met Gln Leu Cys	Leu Ala Leu Leu	Leu Gly Pro Trp Arg	Pro
20	25	30	
Gly Thr Ala Glu Glu	Val Ile Leu Leu	Asp Ser Lys Ala Ser	Gln



	35		40		45
Ala Glu Leu Gly Trp Thr Ala Leu Pro Ser Asn Gly Trp Glu Glu	50		55		60
Ile Ser Gly Val Asp Glu His Asp Arg Pro Ile Arg Thr Tyr Gln	65		70		75
Val Cys Asn Val Leu Glu Pro Asn Gln Asp Asn Trp Leu Gln Thr	80		85		90
Gly Trp Ile Ser Arg Gly Arg Gly Gln Arg Ile Phe Val Glu Leu	95		100		105
Gln Phe Thr Leu Arg Asp Cys Ser Ser Ile Pro Gly Ala Ala Gly	110		115		120
Thr Cys Lys Glu Thr Phe Asn Val Tyr Tyr Leu Glu Thr Glu Ala	125		130		135
Asp Leu Gly Arg Gly Arg Pro Arg Leu Gly Gly Ser Arg Pro Arg	140		145		150
Lys Ile Asp Thr Ile Ala Ala Asp Glu Ser Phe Thr Gln Gly Asp	155		160		165
Leu Gly Glu Arg Lys Met Lys Leu Asn Thr Glu Val Arg Glu Ile	170		175		180
Gly Pro Leu Ser Arg Arg Gly Phe His Leu Ala Phe Gln Asp Val	185		190		195
Gly Ala Cys Val Ala Leu Val Ser Val Arg Val Tyr Tyr Lys Gln	200		205		210
Cys Arg Ala Thr Val Arg Gly Leu Ala Thr Leu Pro Ala Thr Ala	215		220		225
Ala Glu Ser Ala Phe Ser Thr Leu Val Glu Val Ala Gly Thr Cys	230		235		240
Val Ala His Ser Glu Gly Glu Pro Gly Ser Pro Pro Arg Met His	245		250		255
Cys Gly Ala Asp Gly Glu Trp Leu Val Pro Val Gly Arg Cys Ser	260		265		270
Cys Ser Ala Gly Phe Gln Glu Arg Gly Asp Ile Cys Glu Ala Pro	275		280		285
Trp Glu Glu Asp Glu Ile Arg Arg Asp Arg Val Glu Pro Gln Ser	290		295		300
Val Ser Leu Ser Trp Arg Glu Pro Ile Pro Ala Gly Ala Pro Gly	305		310		315
Ala Asn Asp Thr Glu Tyr Glu Ile Arg Tyr Tyr Glu Lys Gly Gln	320		325		330
Ser Glu Gln Thr Tyr Ser Met Val Lys Thr Gly Ala Pro Thr Val	335		340		345
Thr Val Thr Asn Leu Lys Pro Ala Thr Arg Tyr Val Phe Gln Ile	350		355		360
Arg Ala Ala Ser Pro Gly Pro Ser Trp Glu Ala Gln Ser Phe Asn	365		370		375
Pro Ser Ile Glu Val Gln Thr Leu Gly Glu Ala Ala Ser Gly Ser	380		385		390
Arg Asp Gln Ser Pro Ala Ile Val Val Thr Val Val Thr Ile Ser	395		400		405
Ala Leu Leu Val Leu Gly Ser Val Met Ser Val Leu Ala Ile Trp	410		415		420
Arg Arg Pro Cys Ser Tyr Gly Lys Gly Gly Gly Asp Ala His Asp	425		430		435
Glu Glu Glu Leu Tyr Phe His Phe Lys Val Pro Thr Arg Arg Thr	440		445		450
Phe Leu Asp Pro Gln Ser Cys Gly Asp Leu Leu Gln Ala Val His	455		460		465
Leu Phe Ala Lys Glu Leu Asp Ala Lys Ser Val Thr Leu Glu Arg	470		475		480
Ser Leu Gly Gly Gly Arg Phe Gly Glu Leu Cys Cys Gly Cys Leu	485		490		495
Gln Leu Pro Gly Arg Gln Glu Leu Leu Val Ala Val His Met Leu	500		505		510

Arg	Asp	Ser	Ala	Ser	Asp	Ser	Gln	Arg	Leu	Gly	Phe	Leu	Ala	Glu
				515					520					525
Ala	Leu	Thr	Leu	Gly	Gln	Phe	Asp	His	Ser	His	Ile	Val	Arg	Leu
				530					535					540
Glu	Gly	Val	Val	Thr	Arg	Gly	Ser	Thr	Leu	Met	Ile	Val	Thr	Glu
				545					550					555
Tyr	Met	Ser	His	Gly	Ala	Leu	Gly	Gly	Phe	Leu	Arg	Arg	His	Glu
				560					565					570
Gly	Gln	Leu	Val	Ala	Gly	Gln	Leu	Met	Gly	Leu	Leu	Pro	Gly	Leu
				575					580					585
Ala	Ser	Ala	Met	Lys	Tyr	Leu	Ser	Glu	Met	Gly	Tyr	Val	His	Arg
				590					595					600
Gly	Leu	Ala	Ala	Arg	His	Val	Leu	Val	Ser	Ser	Asp	Leu	Val	Cys
				605					610					615
Lys	Ile	Ser	Gly	Phe	Gly	Arg	Gly	Pro	Arg	Asp	Arg	Ser	Glu	Ala
				620					625					630
Val	Tyr	Thr	Thr	Met	Ser	Gly	Arg	Ser	Pro	Ala	Leu	Trp	Ala	Ala
				635					640					645
Pro	Glu	Thr	Leu	Gln	Phe	Gly	His	Phe	Ser	Ser	Ala	Ser	Asp	Val
				650					655					660
Trp	Ser	Phe	Gly	Ile	Ile	Met	Trp	Glu	Val	Met	Ala	Phe	Gly	Glu
				665					670					675
Arg	Pro	Tyr	Trp	Asp	Met	Ser	Gly	Gln	Asp	Val	Ile	Lys	Ala	Val
				680					685					690
Glu	Asp	Gly	Phe	Arg	Leu	Pro	Pro	Pro	Arg	Asn	Cys	Pro	Asn	Leu
				695					700					705
Leu	His	Arg	Leu	Met	Leu	Asp	Cys	Trp	Gln	Lys	Asp	Pro	Gly	Glu
				710					715					720
Arg	Pro	Arg	Phe	Ser	Gln	Ile	His	Ser	Ile	Leu	Ser	Lys	Met	Val
				725					730					735
Gln	Asp	Pro	Glu	Pro	Pro	Lys	Cys	Ala	Leu	Thr	Thr	Cys	Pro	Arg
				740					745					750
Pro	Pro	Thr	Pro	Leu	Ala	Asp	Arg	Ala	Phe	Ser	Thr	Phe	Pro	Ser
				755					760					765
Phe	Gly	Ser	Val	Gly	Ala	Trp	Leu	Glu	Ala	Leu	Asp	Leu	Cys	Arg
				770					775					780
Tyr	Lys	Asp	Ser	Phe	Ala	Ala	Ala	Gly	Tyr	Gly	Ser	Leu	Glu	Ala
				785					790					795
Val	Ala	Glu	Met	Thr	Ala	Gln	Asp	Leu	Val	Ser	Leu	Gly	Ile	Ser
				800					805					810
Leu	Ala	Glu	His	Arg	Glu	Ala	Leu	Leu	Ser	Gly	Ile	Ser	Ala	Leu
				815					820					825
Gln	Ala	Arg	Val	Leu	Gln	Leu	Gln	Gly	Gln	Gly	Val	Gln	Val	
				830					835					

&lt;210&gt; 48

&lt;211&gt; 1384

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 7524443CD1

&lt;400&gt; 48

Met	Ala	Asn	Asp	Ser	Pro	Ala	Lys	Ser	Leu	Val	Asp	Ile	Asp	Leu
1				5					10					15
Ser	Ser	Leu	Arg	Asp	Pro	Ala	Gly	Ile	Phe	Glu	Leu	Val	Glu	Val
				20					25					30
Val	Gly	Asn	Gly	Thr	Tyr	Gly	Gln	Val	Tyr	Lys	Gly	Arg	His	Val
				35					40					45
Lys	Thr	Gly	Gln	Leu	Ala	Ala	Ile	Lys	Val	Met	Asp	Val	Thr	Glu
				50					55					60

Asp	Glu	Glu	Glu	Glu	Ile	Lys	Leu	Glu	Ile	Asn	Met	Leu	Lys	Lys	
				65					70					75	
Tyr	Ser	His	His	Arg	Asn	Ile	Ala	Thr	Tyr	Tyr	Gly	Ala	Phe	Ile	
				80					85					90	
Lys	Lys	Gly	Pro	Pro	Gly	His	Asp	Asn	Gln	Leu	Trp	Leu	Val	Met	
				95					100					105	
Glu	Phe	Cys	Gly	Ala	Gly	Ser	Ile	Thr	Asp	Pro	Val	Lys	Asn	Thr	
				110					115					120	
Lys	Gly	Asn	Thr	Leu	Lys	Glu	Asp	Trp	Ile	Ala	Tyr	Ile	Ser	Arg	
				125					130					135	
Glu	Ile	Leu	Arg	Gly	Leu	Ala	His	Leu	His	Ile	His	His	Val	Ile	
				140					145					150	
His	Arg	Asp	Ile	Lys	Gly	Gln	Asn	Val	Leu	Leu	Thr	Glu	Asn	Ala	
				155					160					165	
Glu	Val	Lys	Leu	Val	Asp	Phe	Gly	Val	Ser	Ala	Gln	Leu	Asp	Arg	
				170					175					180	
Thr	Val	Gly	Arg	Arg	Asn	Thr	Phe	Ile	Gly	Thr	Pro	Tyr	Trp	Met	
				185					190					195	
Ala	Pro	Glu	Val	Ile	Ala	Cys	Asp	Glu	Asn	Pro	Asp	Ala	Thr	Tyr	
				200					205					210	
Asp	Tyr	Arg	Ser	Asp	Leu	Gly	Ser	Cys	Gly	Ile	Thr	Ala	Ile	Glu	
				215					220					225	
Met	Ala	Glu	Gly	Ala	Pro	Pro	Leu	Cys	Asp	Met	His	Pro	Met	Arg	
				230					235					240	
Ala	Leu	Phe	Leu	Ile	Pro	Arg	Asn	Pro	Pro	Pro	Arg	Leu	Lys	Ser	
				245					250					255	
Lys	Lys	Trp	Ser	Lys	Lys	Phe	Phe	Ser	Phe	Ile	Glu	Gly	Cys	Leu	
				260					265					270	
Val	Lys	Asn	Tyr	Met	Gln	Arg	Pro	Ser	Thr	Glu	Gln	Leu	Leu	Lys	
				275					280					285	
His	Pro	Phe	Ile	Arg	Asp	Gln	Pro	Asn	Glu	Arg	Gln	Val	Arg	Ile	
				290					295					300	
Gln	Leu	Lys	Asp	His	Ile	Asp	Arg	Thr	Arg	Lys	Lys	Arg	Gly	Glu	
				305					310					315	
Lys	Asp	Glu	Thr	Glu	Tyr	Glu	Tyr	Ser	Gly	Ser	Glu	Glu	Glu	Glu	
				320					325					330	
Glu	Glu	Val	Pro	Glu	Gln	Glu	Gly	Glu	Pro	Ser	Ser	Ile	Val	Asn	
				335					340					345	
Val	Pro	Gly	Glu	Ser	Thr	Leu	Arg	Arg	Asp	Phe	Leu	Arg	Leu	Gln	
				350					355					360	
Gln	Glu	Asn	Lys	Glu	Arg	Ser	Glu	Ala	Leu	Arg	Arg	Gln	Gln	Leu	
				365					370					375	
Leu	Gln	Glu	Gln	Gln	Leu	Arg	Glu	Gln	Glu	Glu	Tyr	Lys	Arg	Gln	
				380					385					390	
Leu	Leu	Ala	Glu	Arg	Gln	Lys	Arg	Ile	Glu	Gln	Gln	Lys	Glu	Gln	
				395					400					405	
Arg	Arg	Arg	Leu	Glu	Glu	Gln	Gln	Arg	Arg	Glu	Arg	Glu	Ala	Arg	
				410					415					420	
Arg	Gln	Gln	Glu	Arg	Glu	Gln	Arg	Arg	Arg	Glu	Gln	Glu	Glu	Lys	
				425					430					435	
Arg	Arg	Leu	Glu	Glu	Leu	Glu	Arg	Arg	Arg	Lys	Glu	Glu	Glu	Glu	
				440					445					450	
Arg	Arg	Arg	Ala	Glu	Glu	Glu	Lys	Arg	Arg	Val	Glu	Arg	Glu	Gln	
				455					460					465	
Glu	Tyr	Ile	Arg	Arg	Gln	Leu	Glu	Glu	Glu	Gln	Arg	His	Leu	Glu	
				470					475					480	
Val	Leu	Gln	Gln	Gln	Leu	Leu	Gln	Glu	Gln	Ala	Met	Leu	Leu	Glu	
				485					490					495	
Cys	Arg	Trp	Arg	Glu	Met	Glu	Glu	His	Arg	Gln	Ala	Glu	Arg	Leu	
				500					505					510	
Gln	Arg	Gln	Leu	Gln	Gln	Glu	Gln	Ala	Tyr	Leu	Leu	Ser	Leu	Gln	
				515					520					525	
His	Asp	His	Arg	Arg	Pro	His	Pro	Gln	His	Ser	Gln	Gln	Pro	Pro	

Pro	Pro	Gln	Gln	530	Glu	Arg	Ser	Lys	Pro	535	Ser	Phe	His	Ala	Pro	540	Glu
				545						550							555
Pro	Lys	Ala	His	560	Tyr	Glu	Pro	Ala	Asp	565	Arg	Ala	Arg	Glu	Val		570
Asp	Arg	Phe	Arg	575	Lys	Thr	Asn	His	Ser	580	Ser	Pro	Glu	Ala	Gln	Ser	585
Lys	Gln	Thr	Gly	590	Arg	Val	Leu	Glu	Pro	595	Pro	Val	Pro	Ser	Arg	Ser	600
Glu	Ser	Phe	Ser	605	Asn	Gly	Asn	Ser	Glu	610	Ser	Val	His	Pro	Ala	Leu	615
Gln	Arg	Pro	Ala	620	Glu	Pro	Gln	Val	Gln	625	Trp	Ser	His	Leu	Ala	Ser	630
Leu	Lys	Asn	Asn	635	Val	Ser	Pro	Val	Ser	640	Arg	Ser	His	Ser	Phe	Ser	645
Asp	Pro	Ser	Pro	650	Lys	Phe	Ala	His	His	655	His	Leu	Arg	Ser	Gln	Asp	660
Pro	Cys	Pro	Pro	665	Ser	Arg	Ser	Glu	Val	670	Leu	Ser	Gln	Ser	Ser	Asp	675
Ser	Lys	Ser	Glu	680	Ala	Pro	Asp	Pro	Thr	685	Gln	Lys	Ala	Trp	Ser	Arg	690
Ser	Asp	Ser	Asp	695	Glu	Val	Pro	Pro	Arg	700	Val	Pro	Val	Arg	Thr	Thr	705
Ser	Arg	Ser	Pro	710	Val	Leu	Ser	Arg	Arg	715	Asp	Ser	Pro	Leu	Gln	Gly	720
Ser	Gly	Gln	Gln	725	Asn	Ser	Gln	Ala	Gly	730	Gln	Arg	Asn	Ser	Thr	Ser	735
Ser	Ile	Glu	Pro	740	Arg	Leu	Leu	Trp	Glu	745	Arg	Val	Glu	Lys	Leu	Val	750
Pro	Arg	Pro	Gly	755	Ser	Gly	Ser	Ser	Ser	760	Gly	Ser	Ser	Asn	Ser	Gly	765
Ser	Gln	Pro	Gly	770	Ser	His	Pro	Gly	Ser	775	Gln	Ser	Gly	Ser	Gly	Glu	780
Arg	Phe	Arg	Val	785	Arg	Ser	Ser	Ser	Lys	790	Ser	Glu	Gly	Ser	Pro	Ser	795
Arg	Arg	Leu	Glu	800	Asn	Ala	Val	Lys	Lys	805	Pro	Glu	Asp	Lys	Lys	Glu	810
Val	Phe	Arg	Pro	815	Leu	Lys	Pro	Ala	Gly	820	Glu	Val	Asp	Leu	Thr	Ala	825
Leu	Ala	Lys	Glu	830	Leu	Arg	Ala	Val	Glu	835	Asp	Val	Arg	Pro	Pro	His	840
Lys	Val	Thr	Asp	845	Tyr	Ser	Ser	Ser	Ser	850	Glu	Glu	Ser	Gly	Thr	Thr	855
Asp	Glu	Glu	Asp	860	Asp	Asp	Val	Glu	Gln	865	Glu	Gly	Ala	Asp	Glu	Ser	870
Thr	Ser	Gly	Pro	875	Glu	Asp	Thr	Arg	Ala	880	Ala	Ser	Ser	Leu	Asn	Leu	885
Ser	Asn	Gly	Glu	890	Thr	Glu	Ser	Val	Lys	895	Thr	Met	Ile	Val	His	Asp	900
Asp	Val	Glu	Ser	905	Glu	Pro	Ala	Met	Thr	910	Pro	Ser	Lys	Glu	Gly	Thr	915
Leu	Ile	Val	Arg	920	Gln	Ser	Thr	Val	Asp	925	Gln	Lys	Arg	Ala	Ser	His	930
His	Glu	Ser	Asn	935	Gly	Phe	Ala	Gly	Arg	940	Ile	His	Leu	Leu	Pro	Asp	945
Leu	Leu	Gln	Gln	950	Ser	His	Ser	Ser	Ser	955	Thr	Ser	Ser	Thr	Ser	Ser	960
Ser	Pro	Ser	Ser	965	Ser	Gln	Pro	Thr	Pro	970	Thr	Met	Ser	Pro	Gln	Thr	975
Pro	Gln	Asp	Lys	980	Leu	Thr	Ala	Asn	Glu	985	Thr	Gln	Ser	Ala	Ser	Ser	990
Thr	Leu	Gln	Lys	995	His	Lys	Ser	Ser	Ser	1000	Ser	Phe	Thr	Pro	Phe	Ile	1005

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Asp Pro Arg Leu Leu Gln Ile Ser Pro Ser Ser Gly Thr Thr Val
1010 1015 1020
Thr Ser Val Val Gly Phe Ser Cys Asp Gly Met Arg Pro Glu Ala
1025 1030 1035
Ile Arg Gln Asp Pro Thr Arg Lys Gly Ser Val Val Asn Val Asn
1040 1045 1050
Pro Thr Asn Thr Arg Pro Gln Ser Asp Thr Pro Glu Ile Arg Lys
1055 1060 1065
Tyr Lys Lys Arg Phe Asn Ser Glu Ile Leu Cys Ala Ala Leu Trp
1070 1075 1080
Gly Val Asn Leu Leu Val Gly Thr Glu Ser Gly Leu Met Leu Leu
1085 1090 1095
Asp Arg Ser Gly Gln Gly Lys Val Tyr Pro Leu Ile Asn Arg Arg
1100 1105 1110
Arg Phe Gln Gln Met Asp Val Leu Gly Gly Leu Asn Val Leu Val
1115 1120 1125
Thr Ile Ser Gly Lys Lys Asp Lys Leu Arg Val Tyr Tyr Leu Ser
1130 1135 1140
Trp Leu Arg Asn Lys Ile Leu His Asn Asp Pro Glu Val Glu Lys
1145 1150 1155
Lys Gln Gly Trp Thr Thr Val Gly Asp Leu Glu Gly Cys Val His
1160 1165 1170
Tyr Lys Val Val Lys Tyr Glu Arg Ile Lys Phe Leu Val Ile Ala
1175 1180 1185
Leu Lys Ser Ser Val Glu Val Tyr Ala Trp Ala Pro Lys Pro Tyr
1190 1195 1200
His Lys Phe Met Ala Phe Lys Ser Phe Gly Glu Leu Val His Lys
1205 1210 1215
Pro Leu Leu Val Asp Leu Thr Val Glu Glu Gly Gln Arg Leu Lys
1220 1225 1230
Val Ile Tyr Gly Ser Cys Ala Gly Phe His Ala Val Asp Val Asp
1235 1240 1245
Ser Gly Ser Val Tyr Asp Ile Tyr Leu Pro Thr His Ile Gln Cys
1250 1255 1260
Ser Ile Lys Pro His Ala Ile Ile Ile Leu Pro Asn Thr Asp Gly
1265 1270 1275
Met Glu Leu Leu Val Cys Tyr Glu Asp Glu Gly Val Tyr Val Asn
1280 1285 1290
Thr Tyr Gly Arg Ile Thr Lys Asp Val Val Leu Gln Trp Gly Glu
1295 1300 1305
Met Pro Thr Ser Val Ala Tyr Ile Arg Ser Asn Gln Thr Met Gly
1310 1315 1320
Trp Gly Glu Lys Ala Ile Glu Ile Arg Ser Val Glu Thr Gly His
1325 1330 1335
Leu Asp Gly Val Phe Met His Lys Arg Ala Gln Arg Leu Lys Phe
1340 1345 1350
Leu Cys Glu Arg Asn Asp Lys Val Phe Phe Ala Ser Val Arg Ser
1355 1360 1365
Gly Gly Ser Ser Gln Val Tyr Phe Met Thr Leu Gly Arg Thr Ser
1370 1375 1380
Leu Leu Ser Trp

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&lt;210&gt; 49

&lt;211&gt; 1230

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 7524498CD1

&lt;400&gt; 49

Met	Ala	Asn	Asp	Ser	Pro	Ala	Lys	Ser	Leu	Val	Asp	Ile	Asp	Leu
1				5					10					15
Ser	Ser	Leu	Arg	Asp	Pro	Ala	Gly	Ile	Phe	Glu	Leu	Val	Glu	Val
				20					25					30
Val	Gly	Asn	Gly	Thr	Tyr	Gly	Gln	Val	Tyr	Lys	Gly	Arg	His	Val
				35					40					45
Lys	Thr	Gly	Gln	Leu	Ala	Thr	Ile	Lys	Val	Met	Asp	Val	Thr	Glu
				50					55					60
Asp	Glu	Glu	Glu	Glu	Ile	Lys	Leu	Glu	Ile	Asn	Met	Leu	Lys	Lys
				65					70					75
Tyr	Ser	His	His	Arg	Asn	Ile	Ala	Thr	Tyr	Tyr	Gly	Ala	Phe	Ile
				80					85					90
Lys	Lys	Ser	Pro	Pro	Gly	His	Asp	Asp	Gln	Leu	Trp	Leu	Val	Met
				95					100					105
Glu	Phe	Cys	Gly	Ala	Gly	Ser	Ile	Thr	Asp	Leu	Val	Lys	Asn	Thr
				110					115					120
Lys	Gly	Asn	Thr	Leu	Lys	Glu	Asp	Trp	Ile	Ala	Tyr	Ile	Ser	Arg
				125					130					135
Glu	Ile	Leu	Arg	Gly	Leu	Ala	His	Leu	His	Ile	His	His	Val	Ile
				140					145					150
His	Arg	Asp	Ile	Lys	Gly	Gln	Asn	Val	Leu	Leu	Thr	Glu	Asn	Ala
				155					160					165
Glu	Val	Lys	Leu	Val	Asp	Phe	Gly	Val	Ser	Ala	Gln	Leu	Asp	Arg
				170					175					180
Thr	Val	Gly	Arg	Arg	Asn	Thr	Phe	Ile	Gly	Thr	Pro	Tyr	Trp	Met
				185					190					195
Ala	Pro	Glu	Val	Ile	Ala	Cys	Asp	Glu	Asn	Pro	Asp	Ala	Thr	Tyr
				200					205					210
Asp	Tyr	Arg	Ser	Asp	Leu	Trp	Ser	Cys	Gly	Ile	Thr	Ala	Ile	Glu
				215					220					225
Met	Ala	Glu	Gly	Ala	Pro	Pro	Leu	Cys	Asp	Met	His	Pro	Met	Arg
				230					235					240
Ala	Leu	Phe	Leu	Ile	Pro	Arg	Asn	Pro	Pro	Pro	Arg	Leu	Lys	Ser
				245					250					255
Lys	Lys	Trp	Ser	Lys	Lys	Phe	Phe	Ser	Phe	Ile	Glu	Gly	Cys	Leu
				260					265					270
Val	Lys	Asn	Tyr	Met	Gln	Arg	Pro	Ser	Thr	Glu	Gln	Leu	Leu	Lys
				275					280					285
His	Pro	Phe	Ile	Arg	Asp	Gln	Pro	Asn	Glu	Arg	Gln	Val	Arg	Ile
				290					295					300
Gln	Leu	Lys	Asp	His	Ile	Asp	Arg	Thr	Arg	Lys	Lys	Arg	Gly	Glu
				305					310					315
Lys	Asp	Glu	Thr	Glu	Tyr	Glu	Tyr	Ser	Gly	Ser	Glu	Glu	Glu	Glu
				320					325					330
Glu	Glu	Val	Pro	Glu	Gln	Glu	Gly	Glu	Pro	Ser	Ser	Ile	Val	Asn
				335					340					345
Val	Pro	Gly	Glu	Ser	Thr	Leu	Arg	Arg	Asp	Phe	Leu	Arg	Leu	Gln
				350					355					360
Gln	Glu	Asn	Lys	Glu	Arg	Ser	Glu	Ala	Leu	Arg	Arg	Gln	Gln	Leu
				365					370					375
Leu	Gln	Glu	Gln	Gln	Leu	Arg	Glu	Gln	Glu	Glu	Tyr	Lys	Arg	Gln
				380					385					390
Leu	Leu	Ala	Glu	Arg	Gln	Lys	Arg	Ile	Glu	Gln	Gln	Lys	Glu	Gln
				395					400					405
Arg	Arg	Arg	Leu	Glu	Glu	Gln	Gln	Arg	Arg	Glu	Arg	Glu	Ala	Arg
				410					415					420
Arg	Gln	Gln	Glu	Arg	Glu	Gln	Arg	Arg	Arg	Glu	Gln	Glu	Glu	Lys
				425					430					435
Arg	Arg	Leu	Glu	Glu	Leu	Glu	Arg	Arg	Arg	Lys	Glu	Glu	Glu	Glu
				440					445					450
Arg	Arg	Arg	Ala	Glu	Glu	Glu	Lys	Arg	Arg	Val	Glu	Arg	Glu	Gln
				455					460					465
Glu	Tyr	Ile	Arg	Arg	Gln	Leu	Glu	Glu	Glu	Gln	Arg	His	Leu	Glu

Val Leu Gln Gln	470	Gln Leu Leu Gln Glu	475	Gln Ala Met Leu Leu	480
Asp His Arg Arg	485	Pro His Pro Gln His	490	Ser Gln Gln Pro Pro	495
Pro Gln Gln Glu	500	Arg Ser Lys Pro Ser	505	Phe His Ala Pro Glu	510
Lys Ala His Tyr	515	Glu Pro Ala Asp Arg	520	Ala Arg Glu Trp Ser	525
Leu Ala Ser Leu	530	Lys Asn Asn Val Ser	535	Pro Val Ser Arg Ser	540
Ser Phe Ser Asp	545	Pro Ser Pro Lys Phe	550	Ala His His His Leu	555
Ser Gln Asp Pro	560	Cys Pro Pro Ser Arg	565	Ser Glu Val Leu Ser	570
Ser Ser Asp Ser	575	Lys Ser Glu Ala Pro	580	Asp Pro Thr Gln Lys	585
Trp Ser Arg Ser	590	Asp Ser Asp Glu Val	595	Pro Pro Arg Val Pro	600
Arg Thr Thr Ser	605	Arg Ser Pro Val Leu	610	Ser Arg Arg Asp Ser	615
Leu Gln Gly Ser	620	Gln Gln Asn Ser	625	Ser Ala Gly Gln Arg	630
Ser Thr Ser Ser	635	Ile Glu Pro Arg Leu	640	Leu Trp Glu Arg Val	645
Lys Leu Val Pro	650	Arg Pro Gly Ser Gly	655	Ser Ser Ser Gly Ser	660
Asn Ser Gly Ser	665	Gln Pro Gly Ser His	670	Pro Gly Ser Gln Ser	675
Ser Gly Glu Arg	680	Phe Arg Val Arg Ser	685	Ser Ser Lys Ser Glu	690
Ser Pro Ser Gln	695	Arg Leu Glu Asn Ala	700	Val Lys Lys Pro Glu	705
Lys Lys Glu Val	710	Phe Arg Pro Leu Lys	715	Pro Ala Asp Leu Thr	720
Leu Ala Lys Glu	725	Leu Arg Ala Val Glu	730	Asp Val Arg Pro Pro	735
Lys Val Thr Asp	740	Tyr Ser Ser Ser Ser	745	Glu Glu Ser Gly Thr	750
Asp Glu Glu Asp	755	Asp Asp Val Glu Gln	760	Glu Glu Ser Gly Thr	765
Thr Ser Gly Pro	770	Glu Asp Thr Arg Ala	775	Glu Gly Ala Asp Glu	780
Ser Asn Gly Glu	785	Thr Glu Ser Val Lys	790	Ala Ser Ser Leu Asn	795
Asp Val Glu Ser	800	Thr Glu Ser Val Lys	805	Thr Met Ile Val His	810
Leu Ile Val Arg	815	Gln Pro Ala Met Thr	820	Pro Ser Lys Glu Gly	825
His Lys Ser Ser	830	Gln Thr Gln Ser Ala	835	Ser Ser Thr Leu Gln	840
Leu Gln Ile Ser	845	Ser Ser Phe Thr Pro	850	Phe Ile Asp Pro Arg	855
Gly Phe Ser Cys	860	Pro Ser Ser Gly Thr	865	Thr Val Thr Ser Val	870
Pro Thr Arg Lys	875	Asp Gly Met Arg Pro	880	Glu Ala Ile Arg Gln	885
Arg Pro Gln Ser	890	Gly Ser Val Val Asn	895	Val Asn Pro Thr Asn	900
Phe Asn Ser Glu	905	Asp Thr Pro Glu Ile	910	Arg Lys Tyr Lys Lys	915
Leu Val Gly Thr	920	Ile Leu Cys Ala Ala	925	Leu Trp Gly Val Asn	930
	935	Glu Ser Gly Leu Met	940	Leu Leu Asp Arg Ser	945

Gln	Gly	Lys	Val	Tyr	Pro	Leu	Ile	Asn	Arg	Arg	Arg	Phe	Gln	Gln
				950					955					960
Met	Asp	Val	Leu	Glu	Gly	Leu	Asn	Val	Leu	Val	Thr	Ile	Ser	Gly
				965					970					975
Lys	Lys	Asp	Lys	Leu	Arg	Val	Tyr	Tyr	Leu	Ser	Trp	Leu	Arg	Asn
				980					985					990
Lys	Ile	Leu	His	Asn	Asp	Pro	Glu	Val	Glu	Lys	Lys	Gln	Gly	Trp
				995					1000					1005
Thr	Thr	Val	Gly	Asp	Leu	Glu	Gly	Cys	Val	His	Tyr	Lys	Val	Val
				1010					1015					1020
Lys	Tyr	Glu	Arg	Ile	Lys	Phe	Leu	Val	Ile	Ala	Leu	Lys	Ser	Ser
				1025					1030					1035
Val	Glu	Val	Tyr	Ala	Trp	Ala	Pro	Lys	Pro	Tyr	His	Lys	Phe	Met
				1040					1045					1050
Ala	Phe	Lys	Ser	Phe	Gly	Glu	Leu	Val	His	Lys	Pro	Leu	Leu	Val
				1055					1060					1065
Asp	Leu	Thr	Val	Glu	Glu	Gly	Gln	Arg	Leu	Lys	Val	Ile	Tyr	Gly
				1070					1075					1080
Ser	Cys	Ala	Gly	Phe	His	Ala	Val	Asp	Val	Asp	Ser	Gly	Ser	Val
				1085					1090					1095
Tyr	Asp	Ile	Tyr	Leu	Pro	Thr	His	Ile	Gln	Cys	Ser	Ile	Lys	Pro
				1100					1105					1110
His	Ala	Ile	Ile	Ile	Leu	Pro	Asn	Thr	Asp	Gly	Met	Glu	Leu	Leu
				1115					1120					1125
Val	Cys	Tyr	Glu	Asp	Glu	Gly	Val	Tyr	Val	Asn	Thr	Tyr	Gly	Arg
				1130					1135					1140
Ile	Thr	Lys	Asp	Val	Val	Leu	Gln	Trp	Gly	Glu	Met	Pro	Thr	Ser
				1145					1150					1155
Val	Ala	Tyr	Ile	Arg	Ser	Asn	Gln	Thr	Met	Gly	Trp	Gly	Glu	Lys
				1160					1165					1170
Ala	Ile	Glu	Ile	Arg	Ser	Val	Glu	Thr	Gly	His	Leu	Asp	Gly	Val
				1175					1180					1185
Phe	Met	His	Lys	Arg	Ala	Gln	Arg	Leu	Lys	Phe	Leu	Cys	Glu	Arg
				1190					1195					1200
Asn	Asp	Lys	Val	Phe	Phe	Ala	Ser	Val	Arg	Ser	Gly	Gly	Ser	Ser
				1205					1210					1215
Gln	Val	Tyr	Phe	Met	Thr	Leu	Gly	Arg	Thr	Ser	Leu	Leu	Ser	Trp
				1220					1225					1230

&lt;210&gt; 50

&lt;211&gt; 1199

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 7524957CD1

&lt;400&gt; 50

Met	Gly	Arg	Gly	Met	Gly	Glu	Glu	Gly	Pro	Pro	Ser	Leu	Glu	Tyr
1				5					10					15
Ile	Gln	Ala	Lys	Asp	Leu	Phe	Pro	Pro	Lys	Glu	Leu	Val	Lys	Glu
				20					25					30
Glu	Glu	Asn	Leu	Gln	Val	Pro	Phe	Thr	Val	Leu	Gln	Gly	Glu	Gly
				35					40					45
Val	Glu	Phe	Leu	Gly	Arg	Ala	Ala	Asp	Ala	Leu	Ile	Ala	Ile	Ser
				50					55					60
Asn	Tyr	Arg	Leu	His	Ile	Lys	Phe	Lys	Asp	Ser	Val	Ile	Asn	Val
				65					70					75
Pro	Leu	Arg	Met	Ile	Asp	Ser	Val	Glu	Ser	Arg	Asp	Met	Phe	Gln
				80					85					90
Leu	His	Ile	Ser	Cys	Lys	Asp	Ser	Lys	Val	Val	Arg	Cys	His	Phe



				95					100					105
Ser	Thr	Phe	Lys	Gln	Cys	Gln	Glu	Trp	Leu	Ser	Arg	Leu	Ser	Arg
				110					115					120
Ala	Thr	Ala	Arg	Pro	Ala	Lys	Pro	Glu	Asp	Leu	Phe	Ala	Phe	Ala
				125					130					135
Tyr	His	Ala	Trp	Cys	Leu	Gly	Leu	Thr	Glu	Glu	Asp	Gln	His	Thr
				140					145					150
His	Leu	Cys	Gln	Pro	Gly	Glu	His	Ile	Arg	Cys	Arg	Gln	Glu	Ala
				155					160					165
Glu	Leu	Ala	Arg	Met	Gly	Phe	Asp	Leu	Gln	Asn	Val	Trp	Arg	Val
				170					175					180
Ser	His	Ile	Asn	Ser	Asn	Tyr	Lys	Leu	Cys	Pro	Ser	Tyr	Pro	Gln
				185					190					195
Lys	Leu	Leu	Val	Pro	Val	Trp	Ile	Thr	Asp	Lys	Glu	Leu	Glu	Asn
				200					205					210
Val	Ala	Ser	Phe	Arg	Ser	Trp	Lys	Arg	Ile	Pro	Val	Val	Val	Tyr
				215					220					225
Arg	His	Leu	Arg	Asn	Gly	Ala	Ala	Ile	Ala	Arg	Cys	Ser	Gln	Pro
				230					235					240
Glu	Ile	Ser	Trp	Trp	Gly	Trp	Arg	Asn	Ala	Asp	Asp	Glu	Tyr	Leu
				245					250					255
Val	Thr	Ser	Ile	Ala	Lys	Ala	Cys	Ala	Leu	Asp	Pro	Gly	Thr	Arg
				260					265					270
Ala	Thr	Gly	Gly	Ser	Leu	Ser	Thr	Gly	Asn	Asn	Asp	Thr	Ser	Glu
				275					280					285
Ala	Cys	Asp	Ala	Asp	Phe	Asp	Ser	Ser	Leu	Thr	Ala	Cys	Ser	Gly
				290					295					300
Val	Glu	Ser	Thr	Ala	Ala	Pro	Gln	Lys	Leu	Leu	Ile	Leu	Asp	Ala
				305					310					315
Arg	Ser	Tyr	Thr	Ala	Ala	Val	Ala	Asn	Arg	Ala	Lys	Gly	Gly	Gly
				320					325					330
Cys	Glu	Cys	Glu	Glu	Tyr	Tyr	Pro	Asn	Cys	Glu	Val	Val	Phe	Met
				335					340					345
Gly	Met	Ala	Asn	Ile	His	Ala	Ile	Arg	Asn	Ser	Phe	Gln	Tyr	Leu
				350					355					360
Arg	Ala	Val	Cys	Ser	Gln	Met	Pro	Asp	Pro	Ser	Asn	Trp	Leu	Ser
				365					370					375
Ala	Leu	Glu	Ser	Thr	Lys	Trp	Leu	Gln	His	Leu	Ser	Val	Met	Leu
				380					385					390
Lys	Ala	Ala	Val	Leu	Val	Ala	Asn	Thr	Val	Asp	Arg	Glu	Gly	Arg
				395					400					405
Pro	Val	Leu	Val	His	Cys	Ser	Asp	Gly	Trp	Asp	Arg	Thr	Pro	Gln
				410					415					420
Ile	Val	Ala	Leu	Ala	Lys	Ile	Leu	Leu	Asp	Pro	Tyr	Tyr	Arg	Thr
				425					430					435
Leu	Glu	Gly	Phe	Gln	Val	Leu	Val	Glu	Ser	Asp	Trp	Leu	Asp	Phe
				440					445					450
Gly	His	Lys	Phe	Gly	Asp	Arg	Cys	Gly	His	Gln	Glu	Asn	Val	Glu
				455					460					465
Asp	Gln	Asn	Glu	Gln	Cys	Pro	Val	Phe	Leu	Gln	Trp	Leu	Asp	Ser
				470					475					480
Val	His	Gln	Leu	Leu	Lys	Gln	Phe	Ala	Cys	Leu	Phe	Glu	Phe	Asn
				485					490					495
Glu	Ala	Phe	Leu	Val	Lys	Leu	Val	Gln	His	Thr	Tyr	Ser	Cys	Leu
				500					505					510
Tyr	Gly	Thr	Phe	Leu	Ala	Asn	Asn	Pro	Cys	Glu	Arg	Glu	Lys	Arg
				515					520					525
Asn	Ile	Tyr	Lys	Arg	Thr	Cys	Ser	Val	Trp	Ala	Leu	Leu	Arg	Ala
				530					535					540
Gly	Asn	Lys	Asn	Phe	His	Asn	Phe	Leu	Tyr	Thr	Pro	Ser	Ser	Asp
				545					550					555
Met	Val	Leu	His	Pro	Val	Cys	His	Val	Arg	Ala	Leu	His	Leu	Trp
				560					565					570

Thr	Ala	Val	Tyr	Leu	Pro	Ala	Ser	Ser	Pro	Cys	Thr	Leu	Gly	Glu
				575					580					585
Glu	Asn	Met	Asp	Leu	Tyr	Leu	Ser	Pro	Val	Ala	Gln	Ser	Gln	Glu
				590					595					600
Phe	Ser	Gly	Arg	Ser	Leu	Asp	Arg	Leu	Pro	Lys	Thr	Arg	Ser	Met
				605					610					615
Asp	Asp	Leu	Leu	Ser	Ala	Cys	Asp	Thr	Ser	Ser	Pro	Leu	Thr	Arg
				620					625					630
Thr	Ser	Ser	Asp	Pro	Asn	Leu	Asn	Asn	His	Cys	Gln	Glu	Val	Arg
				635					640					645
Val	Gly	Leu	Glu	Pro	Trp	His	Ser	Asn	Pro	Glu	Gly	Ser	Glu	Thr
				650					655					660
Ser	Phe	Val	Asp	Ser	Gly	Val	Gly	Gly	Pro	Gln	Gln	Thr	Val	Gly
				665					670					675
Glu	Val	Gly	Leu	Pro	Pro	Pro	Leu	Pro	Ser	Ser	Gln	Lys	Asp	Tyr
				680					685					690
Leu	Ser	Asn	Lys	Pro	Phe	Lys	Ser	His	Lys	Ser	Cys	Ser	Pro	Ser
				695					700					705
Tyr	Lys	Leu	Leu	Asn	Thr	Ala	Val	Pro	Arg	Glu	Met	Lys	Ser	Asn
				710					715					720
Thr	Ser	Asp	Pro	Glu	Ile	Lys	Val	Leu	Glu	Glu	Thr	Lys	Gly	Pro
				725					730					735
Ala	Pro	Asp	Pro	Ser	Ala	Gln	Asp	Glu	Leu	Gly	Arg	Thr	Leu	Asp
				740					745					750
Gly	Ile	Gly	Glu	Pro	Pro	Glu	His	Cys	Pro	Glu	Thr	Glu	Ala	Val
				755					760					765
Ser	Ala	Leu	Ser	Lys	Val	Ile	Ser	Asn	Lys	Cys	Asp	Gly	Val	Cys
				770					775					780
Asn	Phe	Pro	Glu	Ser	Ser	Gln	Asn	Ser	Pro	Thr	Gly	Thr	Pro	Gln
				785					790					795
Gln	Ala	Gln	Pro	Asp	Ser	Met	Leu	Gly	Val	Pro	Ser	Lys	Cys	Val
				800					805					810
Leu	Asp	His	Ser	Leu	Ser	Thr	Val	Cys	Asn	Pro	Pro	Ser	Ala	Ala
				815					820					825
Cys	Gln	Thr	Pro	Leu	Asp	Pro	Ser	Thr	Asp	Phe	Leu	Asn	Gln	Asp
				830					835					840
Pro	Ser	Gly	Ser	Val	Ala	Ser	Ile	Ser	His	Gln	Glu	Gln	Leu	Ser
				845					850					855
Ser	Val	Pro	Asp	Leu	Thr	His	Gly	Glu	Glu	Asp	Ile	Gly	Lys	Arg
				860					865					870
Gly	Asn	Asn	Arg	Asn	Gly	Gln	Leu	Leu	Glu	Asn	Pro	Arg	Phe	Gly
				875					880					885
Lys	Met	Pro	Leu	Glu	Leu	Val	Arg	Lys	Pro	Ile	Ser	Gln	Ser	Gln
				890					895					900
Ile	Ser	Glu	Phe	Ser	Phe	Leu	Gly	Ser	Asn	Trp	Asp	Ser	Phe	Gln
				905					910					915
Gly	Met	Val	Thr	Ser	Phe	Pro	Ser	Gly	Glu	Ala	Thr	Pro	Arg	Arg
				920					925					930
Leu	Leu	Ser	Tyr	Gly	Cys	Cys	Ser	Lys	Arg	Pro	Asn	Ser	Lys	Gln
				935					940					945
Met	Arg	Ala	Thr	Gly	Pro	Cys	Phe	Gly	Gly	Gln	Trp	Ala	Gln	Arg
				950					955					960
Glu	Gly	Val	Lys	Ser	Pro	Val	Cys	Ser	Ser	His	Ser	Asn	Gly	His
				965					970					975
Cys	Thr	Gly	Pro	Gly	Gly	Lys	Asn	Gln	Met	Trp	Leu	Ser	Ser	His
				980					985					990
Pro	Lys	Gln	Val	Ser	Ser	Thr	Lys	Pro	Val	Pro	Leu	Asn	Cys	Pro
				995					1000					1005
Ser	Pro	Val	Pro	Pro	Leu	Tyr	Leu	Asp	Asp	Asp	Gly	Leu	Pro	Phe
				1010					1015					1020
Pro	Thr	Asp	Val	Ile	Gln	His	Arg	Leu	Arg	Gln	Ile	Glu	Ala	Gly
				1025					1030					1035
Tyr	Lys	Gln	Glu	Val	Glu	Gln	Leu	Arg	Arg	Gln	Val	Arg	Glu	Leu

	1040		1045		1050
Gln Met Arg Leu Asp	Ile Arg His Cys Cys	Ala Pro Pro Ala Glu			
	1055		1060		1065
Pro Pro Met Asp Tyr	Glu Asp Asp Phe Thr	Cys Leu Lys Glu Ser			
	1070		1075		1080
Asp Gly Ser Asp Thr	Glu Asp Phe Gly Ser	Asp His Ser Glu Asp			
	1085		1090		1095
Cys Leu Ser Glu Ala	Ser Trp Glu Pro Val	Asp Lys Lys Glu Thr			
	1100		1105		1110
Glu Val Thr Arg Trp	Val Pro Asp His Met	Ala Ser His Cys Tyr			
	1115		1120		1125
Asn Cys Asp Cys Glu	Phe Trp Leu Ala Lys	Arg Arg His His Cys			
	1130		1135		1140
Arg Asn Cys Gly Asn	Val Phe Cys Ala Gly	Cys Cys His Leu Lys			
	1145		1150		1155
Leu Pro Ile Pro Asp	Gln Gln Leu Tyr Asp	Pro Val Leu Val Cys			
	1160		1165		1170
Asn Ser Cys Tyr Glu	His Ile Gln Val Ser	Arg Ala Arg Glu Leu			
	1175		1180		1185
Met Ser Gln Gln Leu	Lys Lys Pro Ile Ala	Thr Ala Ser Ser			
	1190		1195		

&lt;210&gt; 51

&lt;211&gt; 592

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 7525097CD1

&lt;400&gt; 51

Met Leu Pro Glu Ala	Gly Ser Leu Trp Leu	Leu Lys Leu Leu Arg
1	5	10
Asp Ile Gln Leu Ala	Gln Phe Tyr Trp Pro	Ile Leu Glu Glu Leu
	20	25
Asn Val Thr Arg Pro	Glu His Phe Asp Phe	Val Lys Pro Glu Asp
	35	40
Leu Asp Gly Ile Gly	Met Gly Arg Pro Ala	Gln Arg Arg Leu Ser
	50	55
Glu Ala Leu Lys Arg	Leu Arg Ser Gly Pro	Lys Ser Lys Asn Trp
	65	70
Val Tyr Lys Ile Leu	Gly Gly Phe Ala Pro	Glu His Lys Glu Pro
	80	85
Thr Leu Pro Ser Asp	Ser Pro Arg His Leu	Pro Glu Pro Glu Gly
	95	100
Gly Leu Lys Cys Leu	Ile Pro Glu Gly Ala	Val Cys Arg Gly Glu
	110	115
Leu Leu Gly Ser Gly	Cys Phe Gly Val Val	His Arg Gly Leu Trp
	125	130
Thr Leu Pro Ser Gly	Lys Ser Val Pro Val	Ala Val Lys Ser Leu
	140	145
Arg Val Gly Pro Glu	Gly Pro Met Gly Thr	Glu Leu Gly Asp Phe
	155	160
Leu Arg Glu Val Ser	Val Met Met Asn Leu	Glu His Pro His Val
	170	175
Leu Arg Leu His Gly	Leu Val Leu Gly Gln	Pro Leu Gln Met Val
	185	190
Met Glu Leu Ala Pro	Leu Gly Ser Leu His	Ala Arg Leu Thr Ala
	200	205
Pro Ala Pro Thr Pro	Pro Leu Leu Val Ala	Leu Leu Cys Leu Phe
	215	220
Leu Arg Gln Leu Ala	Gly Ala Met Ala Tyr	Leu Gly Ala Arg Gly

230	235	240
Leu Val His Arg Asp Leu Ala Thr Arg	Asn Leu Leu Leu Ala Ser	
245	250	255
Pro Arg Thr Ile Lys Val Ala Asp Phe	Gly Leu Val Arg Pro Leu	
260	265	270
Gly Gly Ala Arg Gly Arg Tyr Val Met	Gly Gly Pro Arg Pro Ile	
275	280	285
Pro Tyr Ala Trp Cys Ala Pro Glu Ser	Leu Arg His Gly Ala Phe	
290	295	300
Ser Ser Ala Ser Asp Val Trp Met Phe	Gly Ala Gly Pro Ser Glu	
305	310	315
Ala Cys Cys Val Arg Asp Val Thr Glu	Pro Gly Ala Leu Arg Met	
320	325	330
Glu Thr Gly Asp Pro Ile Thr Val Ile	Glu Gly Ser Pro Asp Ser	
335	340	345
Thr Ile Trp Lys Gly Gln Asn Gly Arg	Thr Phe Lys Val Gly Ser	
350	355	360
Phe Pro Ala Ser Ala Val Thr Leu Ala	Asp Ala Gly Gly Leu Pro	
365	370	375
Ala Thr Arg Pro Val His Arg Gly Thr	Pro Ala Arg Gly Asp Gln	
380	385	390
His Pro Gly Ser Ile Asp Gly Asp Arg	Lys Lys Ala Asn Leu Trp	
395	400	405
Asp Ala Pro Pro Ala Arg Gly Gln Arg	Arg Asn Met Pro Leu Glu	
410	415	420
Arg Met Lys Gly Ile Ser Arg Ser Leu	Glu Ser Val Leu Ser Leu	
425	430	435
Gly Pro Arg Pro Thr Gly Gly Gly Ser	Ser Pro Pro Glu Ile Arg	
440	445	450
Gln Ala Arg Ala Val Pro Gln Gly Pro	Pro Gly Leu Pro Pro Arg	
455	460	465
Pro Pro Leu Ser Ser Ser Ser Pro Gln	Pro Ser Gln Pro Ser Arg	
470	475	480
Glu Arg Leu Pro Trp Pro Lys Arg Lys	Pro Pro His Asn His Pro	
485	490	495
Met Gly Met Pro Gly Ala Arg Lys Ala	Ala Ala Leu Ser Gly Gly	
500	505	510
Leu Leu Ser Asp Pro Glu Leu Gln Arg	Lys Ile Met Glu Met Glu	
515	520	525
Leu Ser Val His Gly Val Thr His Gln	Glu Cys Gln Thr Ala Leu	
530	535	540
Gly Ala Thr Gly Gly Asp Val Val Ser	Ala Ile Arg Asn Leu Lys	
545	550	555
Val Asp Gln Leu Phe His Leu Ser Ser	Arg Ser Arg Ala Asp Cys	
560	565	570
Trp Arg Ile Leu Glu His Tyr Gln Trp	Asp Leu Ser Ala Ala Ser	
575	580	585
Arg Tyr Val Leu Ala Arg Pro		
590		

&lt;210&gt; 52

&lt;211&gt; 118

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 7525117CD1

&lt;400&gt; 52

Met Ala Gln Lys Glu Asn Ser Tyr Pro Trp Pro Tyr Gly Arg Gln	
1 5 10 15	
Thr Ala Pro Ser Gly Leu Ser Thr Leu Pro Gln Arg Val Leu Arg	

				20					25					30
Lys	Glu	Pro	Val	Thr	Pro	Ser	Ala	Leu	Val	Leu	Met	Ser	Arg	Ser
				35					40					45
Asn	Val	Gln	Pro	Thr	Ala	Ala	Pro	Gly	Gln	Lys	Val	Met	Glu	Asn
				50					55					60
Ser	Ser	Gly	Thr	Pro	Asp	Ile	Leu	Thr	Arg	His	Phe	Thr	Ile	Asp
				65					70					75
Asp	Phe	Glu	Ile	Gly	Arg	Pro	Leu	Gly	Lys	Gly	Lys	Phe	Gly	Asn
				80					85					90
Val	Tyr	Leu	Ala	Arg	Glu	Lys	Lys	Ser	His	Phe	Ile	Val	Ala	Leu
				95					100					105
Lys	Pro	Ser	Gln	His	Pro	Ala	Ser	Leu	Gln	Leu	Phe	Leu		
				110					115					

&lt;210&gt; 53

&lt;211&gt; 564

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 7516593CD1

&lt;400&gt; 53

Met	Ser	Ala	Ala	Val	Thr	Ala	Gly	Lys	Leu	Ala	Arg	Ala	Pro	Ala
1				5					10					15
Asp	Pro	Gly	Lys	Ala	Gly	Val	Pro	Gly	Val	Ala	Ala	Pro	Gly	Ala
				20					25					30
Pro	Ala	Ala	Ala	Pro	Pro	Ala	Lys	Glu	Ile	Pro	Glu	Val	Leu	Val
				35					40					45
Asp	Pro	Arg	Ser	Arg	Arg	Arg	Tyr	Val	Arg	Gly	Arg	Phe	Leu	Gly
				50					55					60
Lys	Gly	Gly	Phe	Ala	Lys	Cys	Phe	Glu	Ile	Ser	Asp	Ala	Asp	Thr
				65					70					75
Lys	Glu	Val	Phe	Ala	Gly	Lys	Ile	Val	Pro	Lys	Ser	Leu	Leu	Leu
				80					85					90
Lys	Pro	His	Gln	Arg	Glu	Lys	Met	Ser	Met	Glu	Ile	Ser	Ile	His
				95					100					105
Arg	Ser	Leu	Ala	His	Gln	His	Val	Val	Gly	Phe	His	Gly	Phe	Phe
				110					115					120
Glu	Asp	Asn	Asp	Phe	Val	Phe	Val	Val	Leu	Glu	Leu	Cys	Arg	Arg
				125					130					135
Arg	Ser	Leu	Leu	Glu	Leu	His	Lys	Arg	Arg	Lys	Ala	Leu	Thr	Glu
				140					145					150
Pro	Glu	Ala	Arg	Tyr	Tyr	Leu	Arg	Gln	Ile	Val	Leu	Gly	Cys	Gln
				155					160					165
Tyr	Leu	His	Arg	Asn	Arg	Val	Ile	His	Arg	Asp	Leu	Lys	Leu	Gly
				170					175					180
Asn	Leu	Phe	Leu	Asn	Glu	Asp	Leu	Glu	Val	Lys	Ile	Gly	Asp	Phe
				185					190					195
Gly	Leu	Ala	Thr	Lys	Val	Glu	Tyr	Asp	Gly	Glu	Arg	Lys	Lys	Thr
				200					205					210
Leu	Cys	Gly	Thr	Pro	Asn	Tyr	Ile	Ala	Pro	Glu	Val	Leu	Ser	Lys
				215					220					225
Lys	Gly	His	Ser	Phe	Glu	Val	Asp	Val	Trp	Ser	Ile	Gly	Cys	Ile
				230					235					240
Met	Tyr	Thr	Leu	Leu	Val	Gly	Lys	Pro	Pro	Phe	Glu	Thr	Ser	Cys
				245					250					255
Leu	Lys	Glu	Thr	Tyr	Leu	Arg	Ile	Lys	Lys	Asn	Glu	Tyr	Ser	Ile
				260					265					270
Pro	Lys	His	Ile	Asn	Pro	Val	Ala	Ala	Ser	Leu	Ile	Gln	Lys	Met
				275					280					285
Leu	Gln	Thr	Asp	Pro	Thr	Ala	Arg	Pro	Thr	Ile	Asn	Glu	Leu	Leu

Asn	Asp	Glu	Phe	290	Thr	Ser	Gly	Tyr	295	Ile	Pro	Ala	Arg	Leu	300
				305					310						315
Ile	Thr	Cys	Leu	320	Ile	Pro	Pro	Arg	325	Phe	Ser	Ile	Ala	Pro	330
Ser	Leu	Asp	Pro	335	Asn	Arg	Lys	Pro	340	Leu	Thr	Val	Leu	Asn	345
Gly	Leu	Glu	Asn	350	Pro	Leu	Pro	Glu	355	Pro	Arg	Glu	Lys	Glu	360
Pro	Val	Val	Arg	365	Glu	Thr	Gly	Glu	370	Val	Asp	Cys	His	Leu	375
Asp	Met	Leu	Gln	380	Gln	Leu	His	Ser	385	Asn	Ala	Ser	Lys	Pro	390
Glu	Arg	Gly	Leu	395	Val	Arg	Gln	Glu	400	Ala	Glu	Asp	Pro	Ala	405
Ile	Pro	Ile	Phe	410	Trp	Val	Ser	Lys	415	Val	Asp	Tyr	Ser	Asp	420
Tyr	Gly	Leu	Gly	425	Tyr	Gln	Leu	Cys	430	Asn	Ser	Val	Gly	Val	435
Phe	Asn	Asp	Ser	440	Thr	Arg	Leu	Ile	445	Tyr	Asn	Asp	Gly	Asp	450
Leu	Gln	Tyr	Ile	455	Glu	Arg	Asp	Gly	460	Glu	Ser	Tyr	Leu	Thr	465
Ser	Ser	His	Pro	470	Asn	Ser	Leu	Met	475	Lys	Ile	Thr	Leu	Leu	480
Tyr	Phe	Arg	Asn	485	Tyr	Met	Ser	Glu	490	Leu	Leu	Lys	Ala	Gly	495
Asn	Ile	Thr	Pro	500	Arg	Glu	Gly	Asp	505	Leu	Ala	Arg	Leu	Pro	510
Leu	Arg	Thr	Trp	515	Phe	Arg	Thr	Arg	520	Ala	Ile	Ile	Leu	His	525
Ser	Asn	Gly	Ser	530	Val	Gln	Ile	Asn	535	Phe	Gln	Val	Ser	Trp	540
Ser	Pro	Gly	Ala	545	Gly	Glu	Ser	Trp	550	Arg	Leu	Arg	Met	Pro	555
Ser	Gly	Pro	Cys	560	Gly	Leu	Asn	Val		Glu					

&lt;210&gt; 54

&lt;211&gt; 244

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 7516603CD1

&lt;400&gt; 54

Met	Ser	Gly	Pro	Arg	Pro	Val	Val	Leu	Ser	Gly	Pro	Ser	Gly	Ala	
1				5					10					15	
Gly	Lys	Ser	Thr	Leu	Leu	Lys	Arg	Leu	Leu	Gln	Glu	His	Ser	Gly	
				20					25					30	
Ile	Phe	Gly	Phe	Ser	Val	Ser	His	Thr	Thr	Arg	Asn	Pro	Arg	Pro	
				35					40					45	
Gly	Glu	Glu	Asn	Gly	Lys	Asp	Tyr	Tyr	Phe	Val	Thr	Arg	Glu	Val	
				50					55					60	
Met	Gln	Arg	Asp	Ile	Ala	Ala	Gly	Asp	Phe	Ile	Glu	His	Ala	Glu	
				65					70					75	
Phe	Ser	Gly	Asn	Leu	Tyr	Gly	Thr	Ser	Lys	Val	Ala	Val	Gln	Ala	
				80					85					90	
Val	Gln	Ala	Met	Asn	Arg	Ile	Cys	Val	Leu	Asp	Val	Asp	Leu	Gln	
				95					100					105	
Gly	Val	Arg	Asn	Ile	Lys	Ala	Thr	Asp	Leu	Arg	Pro	Ile	Tyr	Ile	

	110		115		120
Ser Val Gln Pro	Pro Ser Leu His Val	Leu Glu Gln Arg Leu	Arg		
	125		130		135
Gln Arg Asn Thr	Glu Thr Glu Glu Ser	Leu Val Lys Arg Leu	Ala		
	140		145		150
Ala Ala Gln Ala	Asp Met Glu Ser Ser	Lys Glu Pro Gly Leu	Phe		
	155		160		165
Asp Val Val Ile	Ile Asn Asp Ser Leu	Asp Gln Ala Tyr Ala	Glu		
	170		175		180
Leu Lys Glu Ala	Leu Ser Glu Val Gly	Pro Ser Leu Cys Leu	Pro		
	185		190		195
Gly Gln Gly Pro	Arg Gly Gly Leu Gly	Ala Arg Pro Leu Leu	Ser		
	200		205		210
Met Arg Pro Leu	Arg Lys Ser Arg Lys	Leu Lys Gly Pro Ala	Pro		
	215		220		225
Glu Ala Cys Cys	Leu Phe Ser Ala Pro	Arg Ala His Thr Gly	Pro		
	230		235		240
Gly Gln Gln His					

&lt;210&gt; 55

&lt;211&gt; 698

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 7525215CD1

&lt;400&gt; 55

Met Glu Leu Trp	Asp Val Ser Leu Gln	Asp Pro Arg Asp Arg	Phe
1	5	10	15
Glu Leu Leu Gln	Arg Val Gly Ala Gly	Thr Tyr Gly Asp Val	Tyr
	20	25	30
Lys Ala Arg Asp	Thr Val Thr Ser Glu	Leu Ala Ala Val Lys	Ile
	35	40	45
Val Lys Leu Asp	Pro Gly Asp Asp Ile	Ser Ser Leu Gln Gln	Glu
	50	55	60
Ile Thr Ile Leu	Arg Glu Cys Arg His	Pro Asn Val Val Ala	Tyr
	65	70	75
Ile Gly Ser Tyr	Leu Arg Asn Asp Arg	Leu Trp Ile Cys Met	Glu
	80	85	90
Phe Cys Gly Gly	Gly Ser Leu Gln Glu	Ile Tyr His Ala Thr	Gly
	95	100	105
Pro Leu Glu Glu	Arg Gln Ile Ala Tyr	Val Cys Arg Glu Ala	Leu
	110	115	120
Lys Gly Leu His	His Leu His Ser Gln	Gly Lys Ile His Arg	Asp
	125	130	135
Ile Lys Gly Ala	Asn Leu Leu Leu Thr	Leu Gln Gly Asp Val	Lys
	140	145	150
Leu Ala Asp Phe	Gly Val Ser Gly Glu	Leu Thr Ala Ser Val	Ala
	155	160	165
Lys Arg Arg Ser	Phe Ile Gly Thr Pro	Tyr Trp Met Ala Pro	Glu
	170	175	180
Val Ala Ala Val	Glu Arg Lys Gly Gly	Tyr Asn Glu Leu Cys	Asp
	185	190	195
Val Trp Ala Pro	Gly Ile Thr Ala Ile	Glu Leu Gly Glu Leu	Gln
	200	205	210
Pro Pro Leu Phe	His Leu His Pro Met	Arg Ala Leu Met Leu	Met
	215	220	225
Ser Lys Ser Ser	Phe Gln Pro Ala Lys	Leu Arg Asp Lys Thr	Arg
	230	235	240
Trp Thr Gln Asn	Phe His His Phe Leu	Lys Leu Ala Leu Thr	Lys

Asn Pro Lys Lys	245	Arg Pro Thr Ala Glu	250	Lys Leu Leu Gln His	255
Phe Thr Thr Gln	260	Gln Leu Pro Arg Ala	265	Leu Leu Thr Gln Leu	270
Asp Lys Ala Ser	275	Asp Pro His Leu Gly	280	Thr Pro Ser Pro Glu	285
Cys Glu Leu Glu	290	Thr Tyr Asp Met Phe	295	Pro Asp Thr Ile His	300
Arg Gly Gln His	305	Gly Pro Ala Glu Arg	310	Thr Pro Ser Glu Ile	315
Phe His Gln Val	320	Lys Phe Gly Ala Pro	325	Arg Arg Lys Glu Thr	330
Pro Leu Asn Glu	335	Pro Trp Glu Glu Glu	340	Trp Thr Leu Leu Gly	345
Glu Glu Leu Ser	350	Gly Ser Leu Leu Gln	355	Ser Val Gln Glu Ala	360
Glu Glu Arg Ser	365	Leu Thr Ile Arg Ser	370	Ala Ser Glu Phe Gln	375
Leu Asp Ser Pro	380	Asp Asp Thr Met Gly	385	Thr Ile Lys Arg Ala	390
Phe Leu Gly Pro	395	Leu Pro Thr Asp Pro	400	Thr Ile Lys Arg Ala	405
Ser Ser Pro Pro	410	Gly Thr Leu Pro Pro	415	Pro Ala Glu Glu Pro	420
Ser Ser Pro Leu	425	Leu Pro Thr Ala Trp	430	Pro Pro Ser Gly Pro	435
Glu Asp Pro Glu	440	Arg Ser Ser Cys His	445	Ala Thr Met Lys Gln	450
Lys Val His Met	455	Gly Ala Cys Phe Ser	460	Gly Leu Pro Pro Thr	465
Pro Leu Arg Ile	470	His Ala Ala Val Thr	475	Lys Val Phe Asn Gly	480
Arg Asp Gln Phe	485	Leu Val Val Gly Ala	490	Trp Ile His Pro Val	495
Leu Asn Leu His	500	Glu Leu His Glu Asp	505	Glu Glu Gly Ile Tyr	510
Ser His Arg Cys	515	Ser Trp Leu Tyr Cys	520	Thr Leu Glu Lys Leu	525
Ser Leu Ser Gly	530	Lys Ser Thr His Ile	535	Val Asn Asn Val Leu	540
Gly Leu Phe Glu	545	Gln Arg Arg Leu Gln	550	Trp Ala His Asp Leu	555
Ile Pro Thr Asn	560	Arg Leu Thr Gln Arg	565	Gln Gln Val Pro Leu	570
Ala Leu Ser Thr	575	Lys Ile Pro Asp Thr	580	Ile Ile Pro Arg Arg	585
Arg Val Val Arg	590	Asn Pro Tyr Thr Gly	595	Lys Gly Cys Leu Gln	600
Ala Leu Pro Thr	605	Ser Leu Leu Leu Leu	610	Ala Thr Phe Leu Leu	615
Gln Lys Phe Leu	620	Leu Leu Lys Val Arg	625	Gln Trp Tyr Glu Pro	630
Arg Ala Pro Ser	635	Glu Leu Trp Gly Glu	640	Gly Gly Gly Arg Pro	645
Pro Cys Cys Pro	650	Leu Glu Leu Leu Gln	655	Lys Trp Arg Pro Glu	660
Trp Asp Ala Gly	665	Ala Ala Gly Ala Gly	670	Pro Ser Ala Gln Pro	675
Gly Val Cys Trp	680	Gly Arg Gly Ala	685	Trp Glu Gly Ala Ala	690
	695				

&lt;210&gt; 56



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<220>  
<221> misc_feature  
<223> Incyte ID No: 7525356CD1
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Met	Ala	Thr	Ala	Glu	Lys	Gln	Lys	His	Asp	Gly	Arg	Val	Lys	Ile
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Gly	His	Tyr	Ile	Leu	Gly	Asp	Thr	Leu	Gly	Val	Gly	Thr	Phe	Gly
				20					25					30
Lys	Val	Lys	Val	Gly	Lys	His	Glu	Leu	Thr	Gly	His	Lys	Val	Ala
				35					40					45
Val	Lys	Ile	Leu	Asn	Arg	Gln	Lys	Ile	Arg	Ser	Leu	Asp	Val	Val
				50					55					60
Gly	Lys	Ile	Arg	Arg	Glu	Ile	Gln	Asn	Leu	Lys	Leu	Phe	Arg	His
				65					70					75
Pro	His	Ile	Ile	Lys	Leu	Tyr	Gln	Val	Ile	Ser	Thr	Pro	Ser	Asp
				80					85					90
Ile	Phe	Met	Val	Met	Glu	Tyr	Val	Ser	Gly	Gly	Glu	Leu	Phe	Asp
				95					100					105
Tyr	Ile	Cys	Lys	Asn	Gly	Arg	Leu	Asp	Glu	Lys	Glu	Ser	Arg	Arg
				110					115					120
Leu	Phe	Gln	Gln	Ile	Leu	Ser	Gly	Val	Asp	Tyr	Cys	His	Arg	His
				125					130					135
Met	Val	Val	His	Arg	Asp	Leu	Lys	Pro	Glu	Asn	Val	Leu	Leu	Asp
				140					145					150
Ala	His	Met	Asn	Ala	Lys	Ile	Ala	Asp	Phe	Gly	Leu	Ser	Asn	Met
				155					160					165
Met	Ser	Asp	Gly	Glu	Phe	Leu	Arg	Thr	Ser	Cys	Gly	Ser	Pro	Asn
				170					175					180
Tyr	Ala	Ala	Pro	Glu	Val	Ile	Ser	Gly	Arg	Leu	Tyr	Ala	Gly	Pro
				185					190					195
Glu	Val	Asp	Ile	Trp	Ser	Ser	Gly	Val	Ile	Leu	Tyr	Ala	Leu	Leu
				200					205					210
Cys	Gly	Thr	Leu	Pro	Phe	Asp	Asp	Asp	His	Val	Pro	Thr	Leu	Phe
				215					220					225
Lys	Lys	Ile	Cys	Asp	Gly	Ile	Phe	Tyr	Thr	Pro	Gln	Tyr	Leu	Asn
				230					235					240
Pro	Ser	Val	Ile	Ser	Leu	Leu	Lys	His	Met	Leu	Gln	Val	Asp	Pro
				245					250					255
Met	Lys	Arg	Ala	Thr	Ile	Lys	Asp	Ile	Arg	Glu	His	Glu	Trp	Phe
				260					265					270
Lys	Gln	Asp	Leu	Pro	Lys	Tyr	Leu	Phe	Pro	Glu	Asp	Pro	Ser	Tyr
				275					280					285
Ser	Ser	Thr	Met	Ile	Asp	Asp	Glu	Ala	Leu	Lys	Glu	Val	Cys	Glu
				290					295					300
Arg	Val	Pro	Phe	Leu	Val	Ala	Glu	Thr	Pro	Arg	Ala	Arg	His	Thr
				305					310					315
Leu	Asp	Glu	Leu	Asn	Pro	Gln	Lys	Ser	Lys	His	Gln	Gly	Val	Arg
				320					325					330
Lys	Ala	Lys	Trp	His	Leu	Gly	Ile	Arg	Ser	Gln	Ser	Arg	Pro	Asn
				335					340					345
Asp	Ile	Met	Ala	Glu	Val	Cys	Arg	Ala	Ile	Lys	Gln	Leu	Asp	Tyr

Asp Glu Ile Thr Glu Ala Lys Ser Gly Thr Ala Thr Pro Gln Arg  
 410 415 420  
 Ser Gly Ser Val Ser Asn Tyr Arg Ser Cys Gln Arg Ser Asp Ser  
 425 430 435  
 Asp Ala Glu Ala Gln Gly Lys Ser Ser Glu Val Ser Leu Thr Ser  
 440 445 450  
 Ser Val Thr Ser Leu Asp Ser Ser Pro Val Asp Leu Thr Pro Arg  
 455 460 465  
 Pro Gly Ser His Thr Ile Glu Phe Phe Glu Met Cys Ala Asn Leu  
 470 475 480  
 Ile Lys Ile Leu Ala Gln  
 485

<210> 57  
 <211> 1395  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 7521809CB1

<400> 57  
 tagctgtgtg gcccgagtg agattcagaa agtccttgat agcttgacagg agcatctgat 60  
 gaatgatcca gatgttcaag ctcaagttca ggtattatcc gctgcactga gagctgcaca 120  
 gctcgactgc gtgaatgaag ctgagagcaa gccaacagca ggcctaaagg aagtgtccat 180  
 ttcacatccc agctctgcct ctgacaatca gatcgctctg gcggcctcat catctcagga 240  
 tgagctcttt gtggccagga tattacaaag ccagatcca ggtggaccca gaaatggaac 300  
 cagtgacat ctggagactg accagaggca ggatcccacc ccacttgaag agaataaatc 360  
 taaattacag gatgtaatac ctcagccgct gctagatcag tatgtgtcca tgactgaccc 420  
 agctcgagcc cagactgtcg atactgacat agccaaacac tgtgcctaca gcctcccagg 480  
 ggtggcactg accctgggca ggcaaaattg gcactgcctg aaagatacat atgaaacact 540  
 ggcttctgat gtacagtggg aggtacggcg agccctagcc ttctccattc acgagctggc 600  
 tgtgattctt ggggatcagt taacagcagc tgacctgggt cctatcttca atggattttt 660  
 aaaggatctg gatgaagtgc gaataggagt tcttagacac ctgtatgatt ttctaaagac 720  
 agctgatact gattctggaa ctctatagtc ccaatgatgt ttatgattac ctaatgcaca 780  
 ttgccttaaa gttgtgtgca gatcaagttt ctgaagttcg gtggatctcc ttcaaactag 840  
 tcgtggcaat tctgcagaag ttctattcca acagtgaag tgcattgggg ttaaatttca 900  
 tcaatgagct catcataagg ttccggcact gttctaagtg ggttggaagg caagctttcg 960  
 ctttcatttg tcagattctg aaatgacttc tttgggatta aagaagtgtg tgtttctaga 1020  
 agactgcgga aaacatcatt tctttggctg tgactttctt ggagcaggca gtggtgagca 1080  
 aggagtgtgt ccccggtggac cagttcatgg agcacctgct tcccagcctc ctgagcctcg 1140  
 catcagatcc tgtgcccac gtgaggggtt tgctagccaa ggccctaagg cagatgctgt 1200  
 tggaaaaggc gtattttaga aatgctggta accctcatct tgaagtcatt gaagagacca 1260  
 tcttagcatt gcagtcagac cgggaccaag atgtttcctt ttttgcagcc ctagaaccaa 1320  
 gcggcggaat atcatagaca ctgctgtact agaaaaacag aattaactac ttccgtgatg 1380  
 agttgcaatc tgata 1395

<210> 58  
 <211> 1008  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 7520259CB1

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 ccgcgatgca gaaatacgag aaactggaaa agattgggga aggaggcatt tcctggctta 60  
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 ctgtgttcaa ggccaaaaac cgggagactc atgagatcgt ggctctgaaa cgggtgaggc 180  
 tggatgacga tgatgagggt gtgccgagtt ccgccctccg ggagatctgc ctactcaagg 240  
 agctgaagca caagaacatc gtcaggcttc atgacgtcct gcacagcgac aagaagctga 300

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cttttggtttt tgaattctgt gaccaggacc tgaagaagta ttttgacagt tgcaatggtg 360
acctcgatcc tgagattgta aagtcattcc tcttccagct actaaaaggg ctgggattct 420
gtcatagccg caatgtgcta cacagggacc tgaagcccca gaacctgcta ataaacagga 480
atggggagct gaaattggct gattttggcc tggctcgagc ctttgggatt ccggtccgct 540
gttactcagc tgaggtggtc acactgtggt accgcccacc ggatgtcctc tttggggcca 600
agctgtactc cacgtccatc gacatgtggt cagccggctg catctttgca gagctggcca 660
atgctgggcg gcctcttttt cccggcaatg atgtcgatga ccagttgaag aggatcttcc 720
gactgctggg gacgcccacc gaggagcagt ggccctctat gaccaagctg ccagactata 780
agccctatcc gatgtaccgg gccacaacat ccctggtgaa cgctgtgccc aaactcaatg 840
ccacagggag ggaatctgctg cagaaccttc cgaagtgtaa ccctgtccag cgtatctcag 900
cagaagaggc cctgcagcac ccctacttct cgcacttctg tccgcccctag gccccgggac 960
ccccggcctc caggctgggg cctggcctat ttaagcccc tcttgaga 1008

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<210> 59  
 <211> 654  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 7521738CB1

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<400> 59
taccgcaggg cccgatcacg ctggggggcg tggaggccggc catggtcgtg gaagtgggca 60
ccctggacgc tggaggcctg cgggcgctgc tgggggagcg agcggcgcaa tgcctgctgc 120
tggtactgccc ctcttcttcc gctttcaacg cgggccacat cgccggctct gtcaacgtgc 180
gcttcagcac catcgtgcgg cgccggggcca agggcgccat gggcctggag cacatcgtgc 240
ccaacgccga gctccgcggc cgctgctgg cgggcgccca ccacgcccgtg gtgttgtttg 300
tccactggca ggcaggcatt tcccggtcag ccaccatctg ccttgcttac ctatgagga 360
ctaactcgagt caagctggac gaggcctttg agtttgtgaa gcagaggcga agcatcatct 420
ctcccaactt cagcttcatg ggccagctgc tgcagtttga gtcccagggtg ctggctccgc 480
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ccaccgtgtt caacttcccc gtctccatcc ctgtccactc cacgaacagt gcgctgagct 600
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<210> 60  
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 <212> DNA  
 <213> Homo sapiens

<220>  
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 <223> Incyte ID No: 7522266CB1

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 <212> DNA  
 <213> Homo sapiens

<220>  
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 tgagcgggtg agtcctgagc agctggagga ggtgcgggaa gccacacggc gagagacaca 300  
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<220>  
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 <213> Homo sapiens

<220>  
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 gctttgaaag actaggggaat tgaaattcgg agagatcaag ttccccacct ggcccgttgc 180  
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<220>  
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 ccggaacctc aatcttgaca tatatgttat tgggtgagaaa aaacgcaagc ctgcatggac 180  
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 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Incyte ID No: 7521804CB1

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<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 7521841CB1

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<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<223> Incyte ID No: 7521886CB1

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<400> 67
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tggccggcag tcggccagag aacgtgagga agaaccgcta caaagacgtg ctgccttgta 240

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&lt;210&gt; 68

&lt;211&gt; 744

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;223&gt; Incyte ID No: 7521897CB1

&lt;400&gt; 68

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744

&lt;210&gt; 69

&lt;211&gt; 427

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

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&lt;223&gt; Incyte ID No: 7521995CB1

&lt;400&gt; 69

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427

&lt;210&gt; 70

&lt;211&gt; 1341

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 7522018CB1

&lt;400&gt; 70

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&lt;210&gt; 71

&lt;211&gt; 6470

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 7523799CB1

&lt;400&gt; 71

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&lt;223&gt; Incyte ID No: 7521743CB1

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&lt;211&gt; 1084

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&lt;213&gt; Homo sapiens

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&lt;223&gt; Incyte ID No: 7522317CB1

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&lt;211&gt; 834

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;223&gt; Incyte ID No: 7522400CB1

&lt;400&gt; 74

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&lt;213&gt; Homo sapiens

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&lt;400&gt; 75

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&lt;213&gt; Homo sapiens

&lt;220&gt;

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&lt;223&gt; Incyte ID No: 7523542CB1

&lt;400&gt; 76

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&lt;220&gt;

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<212> DNA
<213> Homo sapiens

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<220>
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<223> Incyte ID No: 7523572CB1

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&lt;211&gt; 1775

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;223&gt; Incyte ID No: 7523586CB1

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&lt;211&gt; 2776

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

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&lt;223&gt; Incyte ID No: 7523617CB1

&lt;400&gt; 82

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2776

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&lt;211&gt; 1683

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 7523625CB1

&lt;400&gt; 83



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&lt;210&gt; 84

&lt;211&gt; 2020

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 7523650CB1

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&lt;211&gt; 1369

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 7523665CB1

&lt;400&gt; 85

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 7523672CB1

&lt;400&gt; 86

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&lt;211&gt; 2480

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

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&lt;211&gt; 1828

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 7523689CB1

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&lt;223&gt; Incyte ID No: 7523705CB1

&lt;400&gt; 89

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&lt;211&gt; 1876

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 7523745CB1

&lt;400&gt; 97

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&lt;211&gt; 2363

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

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&lt;400&gt; 98

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&lt;211&gt; 2032

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 7523770CB1

&lt;400&gt; 99

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&lt;210&gt; 100

&lt;211&gt; 2299

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 7523919CB1

&lt;400&gt; 100

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&lt;210&gt; 101

&lt;211&gt; 1792

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;223&gt; Incyte ID No: 7522140CB1

&lt;400&gt; 101

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&lt;211&gt; 1365

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

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&lt;223&gt; Incyte ID No: 7522525CB1

&lt;400&gt; 102

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